SERVICE MANUAL SR3100/MR1135

marantz®

model SR3100/MR1135

Stereophonic Receiver

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

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SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail prive quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

EUROPE

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
193 London Road
Staines, Middlesex
United Kingdom

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Franzengatan 6
10425 Stockholm
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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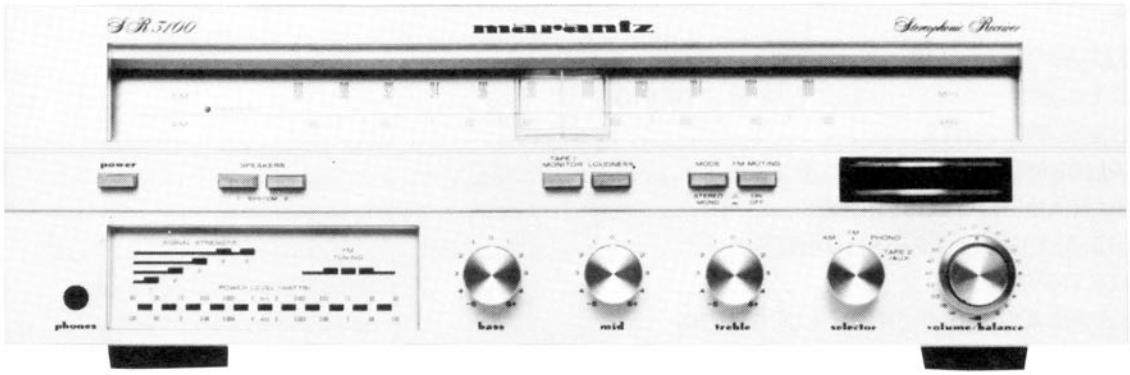
TABLE OF CONTENTS

SECTION		PAGE
1.	P.W. BOARDS	1
2.	TEST EQUIPMENT REQUIRED FOR SERVICING	2
3.	ALIGNMENT POINTS	2
4.	FM ALIGNMENT PROCEDURES	3
5.	AM ALIGNMENT PROCEDURES	4
6.	AUDIO ALIGNMENT PROCEDURES	5
7.	BLOCK DIAGRAM	6
8.	DIAGRAM AND COMPONENT LOCATIONS	7
8.1	Tuner Assembly (P100) Schematic Diagram and Component Locations	7
8.2	Main Amp/Power Supply Assembly (P700) Schematic Diagram and Component Locations	9
8.3	Tone Amp Assembly (PE00) Schematic Diagram and Component Locations	10
8.4	Push Switch Assembly (PS00) Schematic Diagram and Component Locations	10
8.5	L.E.D. Drive and L.E.D. Assembly (PL01, PL02) Schematic Diagram and Component Locations	11
8.6	Headphone Jack Assembly (PW00) Schematic Diagram and Component Locations	12
8.7	S.P.K. Switch Assembly (PX00) Schematic Diagram and Component Locations	12
8.8	Stereo L.E.D. Assembly (PY00) Schematic Diagram and Component Locations	12
8.9	Dial Pointer Lamp Assembly (PZ00) Schematic Diagram and Component Locations	12
9.	EXPLODED VIEWS AND PARTS LIST	13
10.	ELECTRICAL PARTS	19
11.	TECHNICAL SPECIFICATIONS	25
12.	SCHEMATIC DIAGRAM	28

MODEL SR3100 STEREOPHONIC RECEIVER



MODEL MR1135 STEREOPHONIC RECIEVER

INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR3100/MR1135 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

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1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model SR3100/MR1135 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Tuner . . . . . mounted on P.W. Board P100
2. Main Amp/Power Supply . . . . . mounted on P.W. Board P700
3. Tone Amp . . . . . mounted on P.W. Board PE00
4. L.E.D. Driver . . . . . mounted on P.W. Board PL01
5. L.E.D.. . . . . mounted on P.W. Board PL02
6. Push Switch . . . . . mounted on P.W. Board PS00
7. S.P.K. Switch . . . . . mounted on P.W. Board PX00
8. Headphone Jack . . . . . mounted on P.W. Board PW00
9. Stereo L.E.D. . . . . mounted on P.W. Board PY00
10. Dial Pointer Lamp . . . . mounted on P.W. Board PZ00

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR3100/MR1135 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B–10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

3. ALIGNMENT POINTS

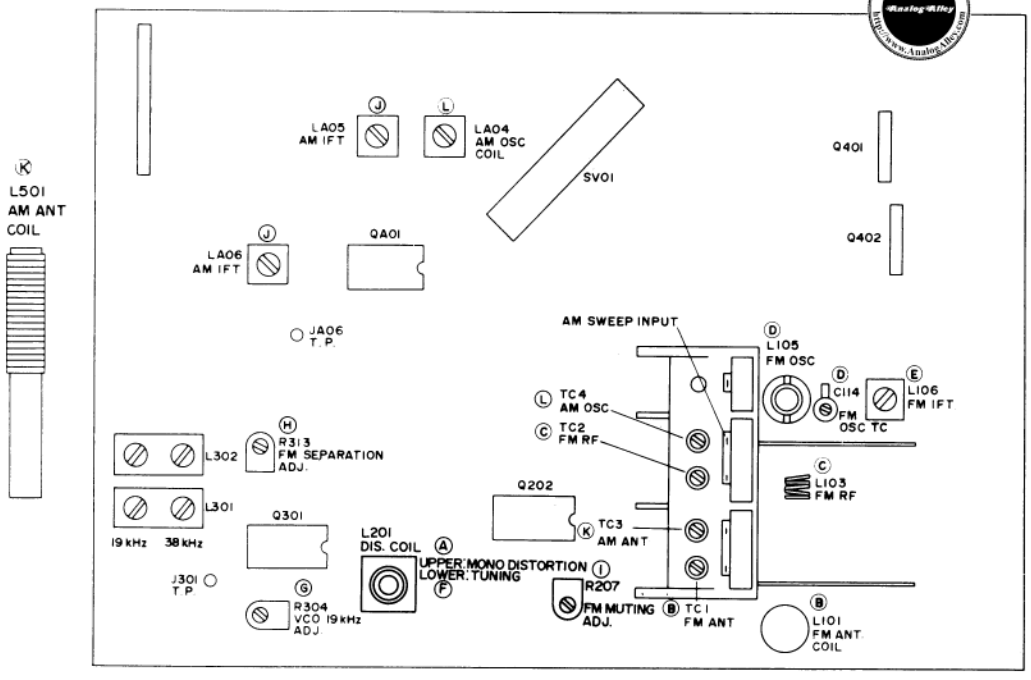

Figure 1. Adjustment Point Locations

* A dummy resistor of 47 kohms must be connected across the tape output terminals before alignment.

4. FM ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
4.1 FM FM IF ALIGNMENT					
1	Sweep generator to point Ⓞ through 5pF capacitor	10.7 MHz market at 10.6, 10.7 and 10.8 MHz	Oscilloscope to point Ⓜ	Quiet point on band.	L106 for maximum and symmetric response.
2			Oscilloscope to point Ⓝ		L201 (Secondary core bottom) for straight and symmetric "S" curve response.
3	Repeat steps 1 and 2.				
4.2 FM RF ALIGNMENT					
1	RF generator to FM antenna terminals through matching network (300 ohms, balanced) Maintain RF level below limit.	87.4 MHz	VTVM to L or R channel output (JV02) (Tape out jack)	87.4 MHz with tuning gang closed.	L105 for maximum output.
2		108.2 MHz		108.2 MHz with tuning gang open.	C114 for maximum output.
3		90 MHz		90 MHz	L101, L103 for maximum output.
4		106 MHz		106 MHz	Ant. RF trimmer for maximum output. (TC1, TC2)
5	Repeat steps 1 to 4.				
6	Check overall response curve and repeat above steps as necessary to obtain maximum sensitivity.				
7	No connection	No signal	–	–	L201 Ⓕ (secondary core bottom) for FM TUNING meter LED pointer indicated its center.
8	FM generator 1 mV output to FM antenna terminals through matching network (300 ohms, balanced)	98 MHz	Distortion meter to L or R channel output (JV02) (Tape out jack)	98 MHz	L201 Ⓐ (primary core upper) for minimum distortion.
9					
4.3 MUTING CIRCUIT ALIGNMENT					
1	RF generator 12.5μV output to FM antenna terminals through matching network (300 ohms, balanced)	98 MHz	VTVM to R or L channel output (JV02) (Tape out jack)	98 MHz	R207 Ⓘ for 12.5μV threshold level. (During the adjustment turn the FM TUNING push-switch "ON").

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4.4 MULTIPLEX ALIGNMENT PROCEDURES (Selector switch in the "FM" position)					
Step	**Signal Source Connection**	**Signal Frequency**	**Indicator Connection**	**Set Dial Pointer to:**	**Adjust:**
1	RF generator to FM antenna terminals through matching network (300 ohms, balanced), with 1 mV FM stereo simulator RF level and 100% modulation (pilot 9%)	No modulation	Frequency counter to T.P. J301.	98 MHz	R304 Ⓖ so that frequency counter may precisely read 19 kHz.
2		Stereo, left (1,000 Hz)	VTVM to right channel output (JV02) (Tape out jack)		R313 Ⓗ for minimum output and same separation in both channels.
3		Stereo, right (1,000 Hz)	VTVM to left channel output (JV02) (Tape out jack)		
4	Repeat steps 2 and 3.				
4.5 SIGNAL L.E.D. METER ALIGNMENT					
1	RF generator 500μV output to FM antenna terminals through matching network (300 ohms, balanced)	98 MHz	Custom Scanned by Analog Alley http://www.AnalogAlley.com	98 MHz	Adjust the trimming resistor RL02 so that the power signal LED meter leading is 5 point. (30W)

5. AM ALIGNMENT PROCEDURES

(Selector switch in the "AM" position)

Step	**Signal Source Connection**	**Signal Frequency**	**Indicator Connection**	**Set Dial Pointer to:**	**Adjust:**
5.1 AM IF ALIGNMENT					
1	Sweep generator to point C120	450 kHz marker	Oscilloscope to point T.P. JA06.	Quiet point on band.	LA05, LA06 Ⓙ for maximum and symmetric response.
5.2 AM RF ALIGNMENT					
1	Apply the signal to the AM bar antenna from the RF generator. Using the test loop.	520 kHz	VTVM to L or R channel output (JV02) (Tape out jack)	520 kHz with tuning gang closed.	LA04 Ⓛ for maximum output.
2		1,630 kHz		1,630 kHz with tuning gang open.	TC4 Ⓛ for maximum output.
3		600 kHz		600 kHz	L051 Ⓚ for maximum output.
4		1,400 kHz		1,400 kHz	TC3 Ⓚ for maximum output.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				

6. AUDIO ALIGNMENT PROCEDURES

(Selector switch in the "AUX" position)

6.1 L.E.D. POWER METER CALIBRATION				
Step	**Signal Source Connection**	**Signal Frequency**	**Indicator Connection**	**Adjustment**
1	AF oscillator to aux jack	1 kHz	AC volt meter in 30V range to speaker terminals	Connect 8Ω load to speaker terminals. Adjust input signal so that output voltage at speaker terminals is 15.5V (30W). Adjust the trimming resistors RL23 and RL24 so that the power LED meter reading is LED 5 point (30W).

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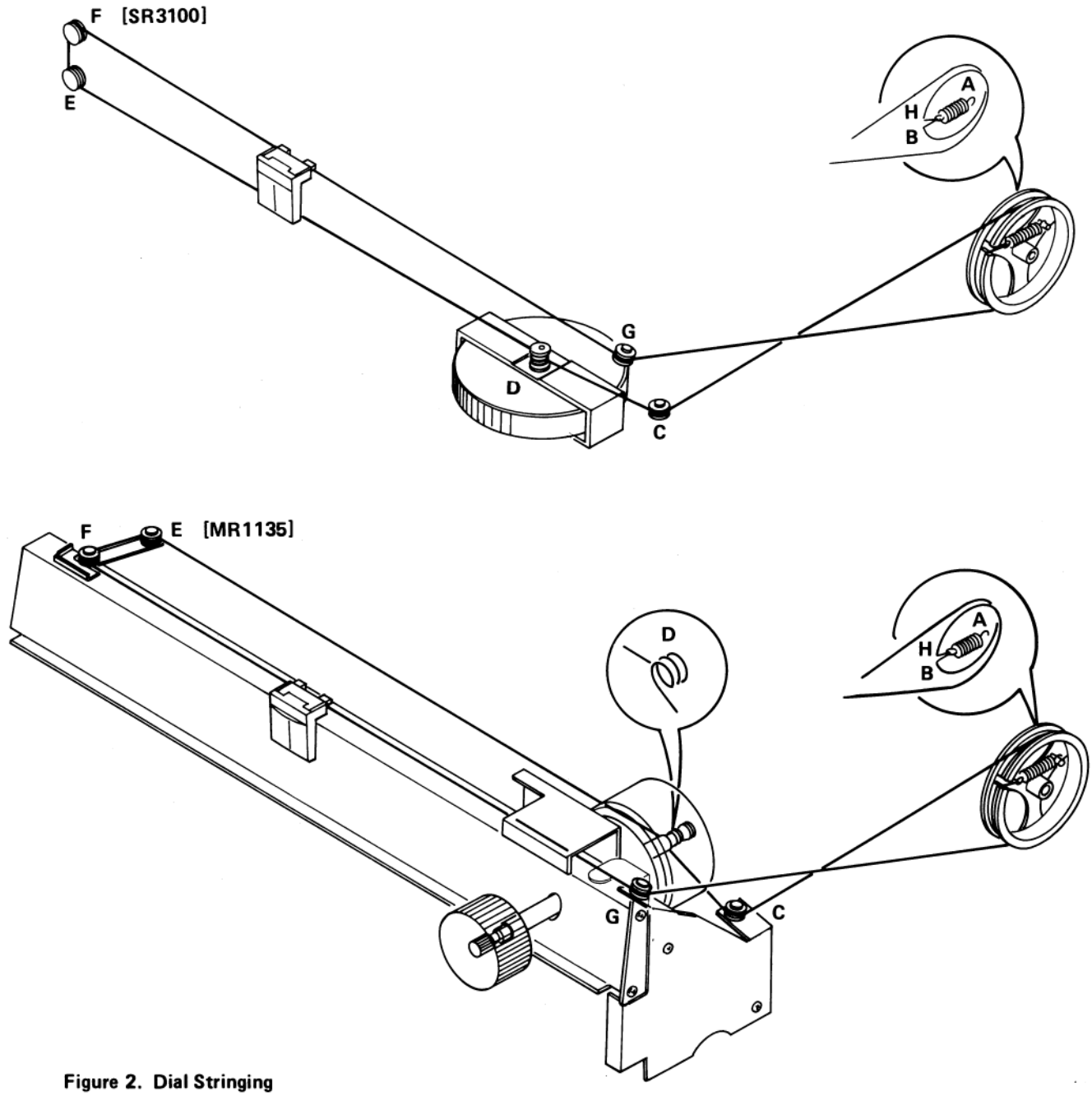
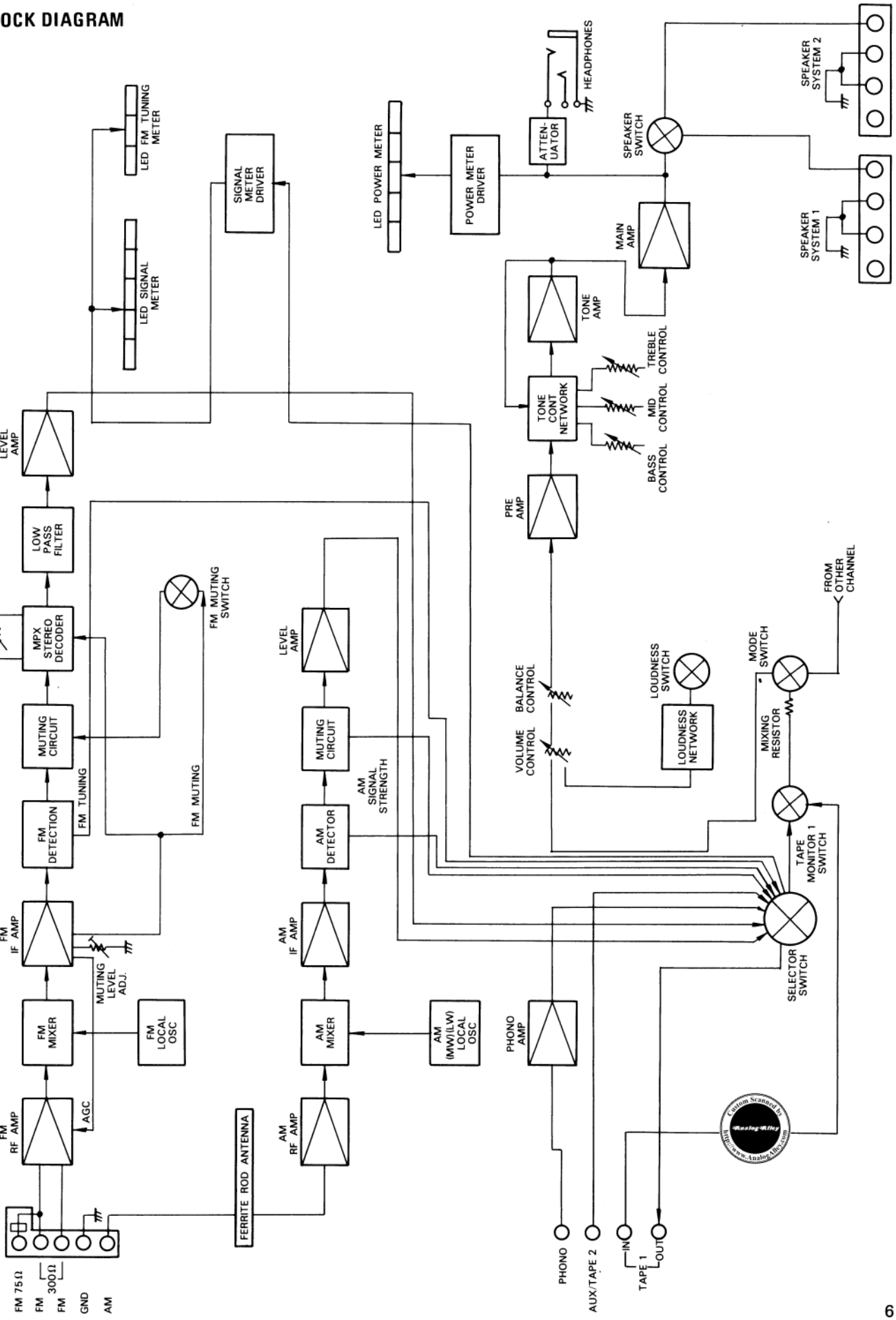


Figure 2. Dial Stringing

7. BLOCK DIAGRAM



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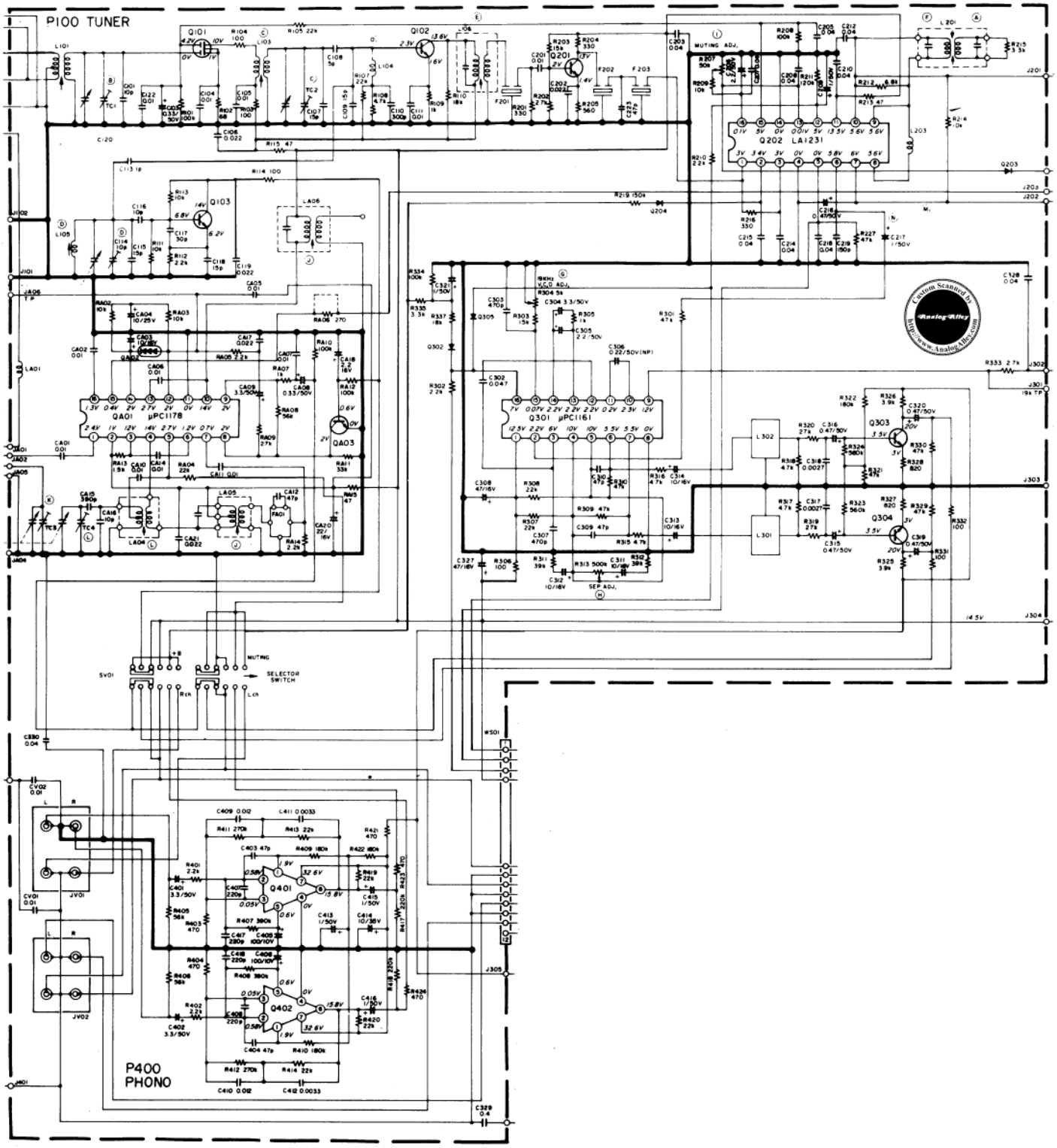
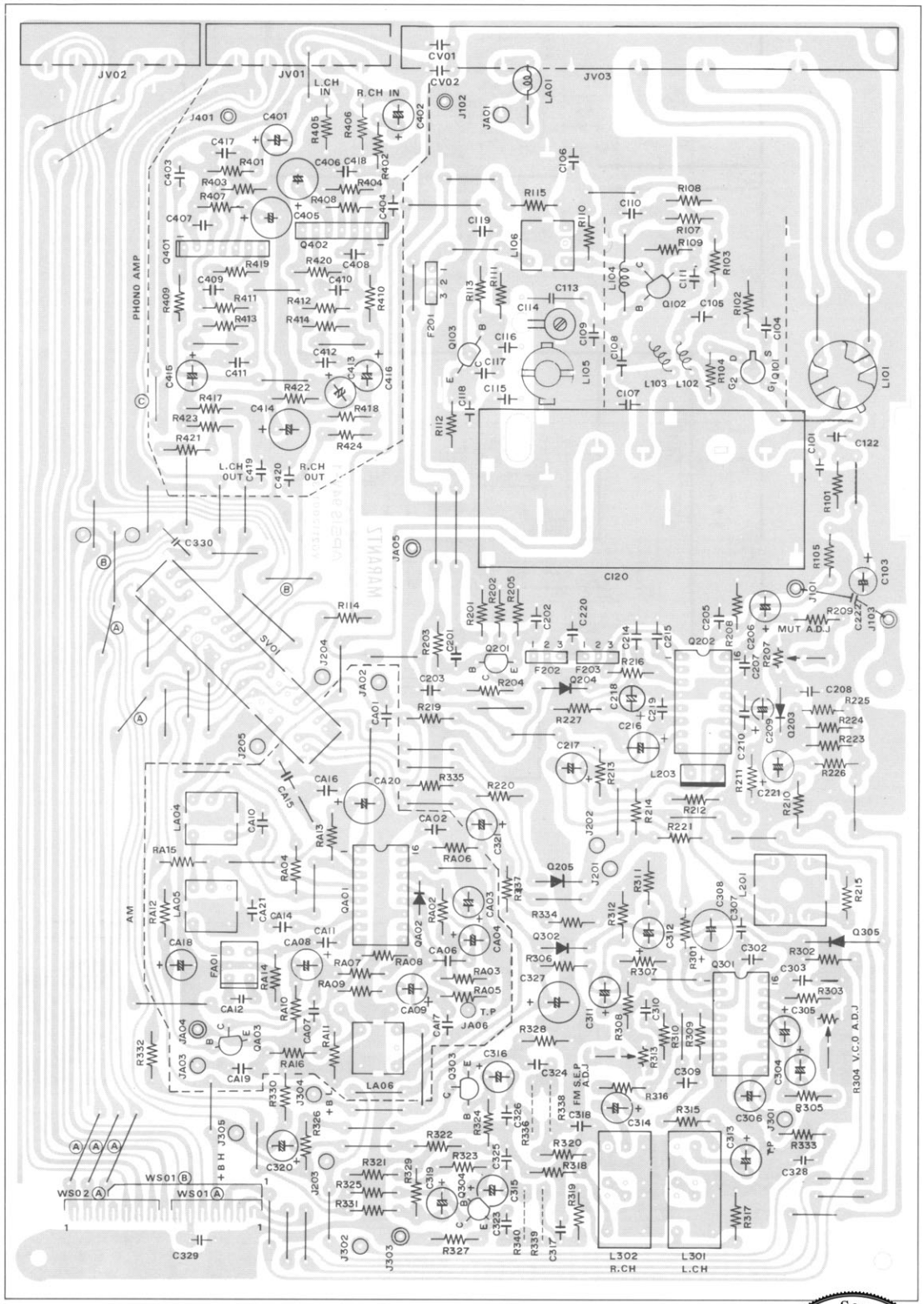
8. DIAGRAM AND COMPONENT LOCATIONS

8.1 Tuner Assembly (P100) Schematic Diagram and Component Locations





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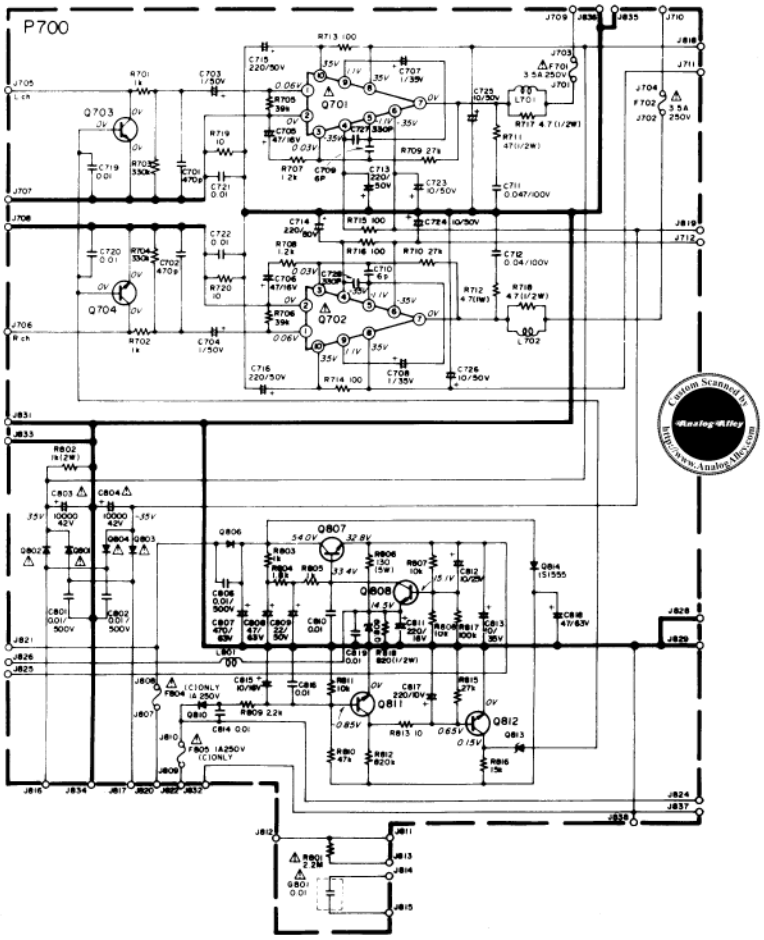
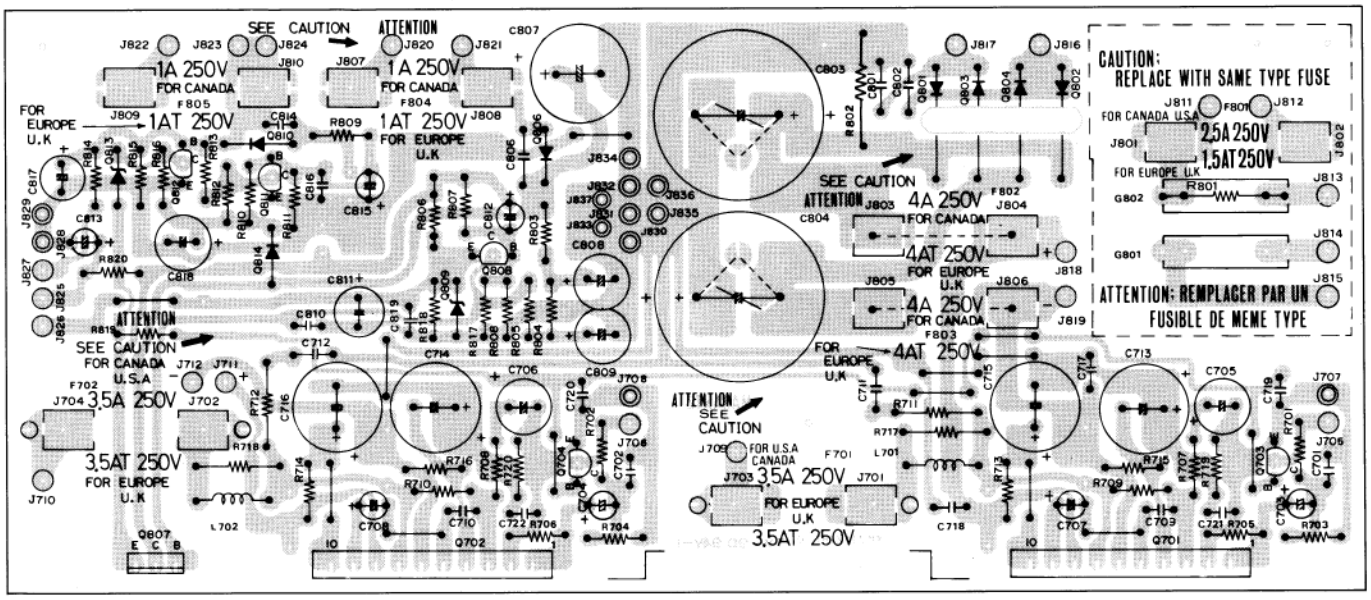
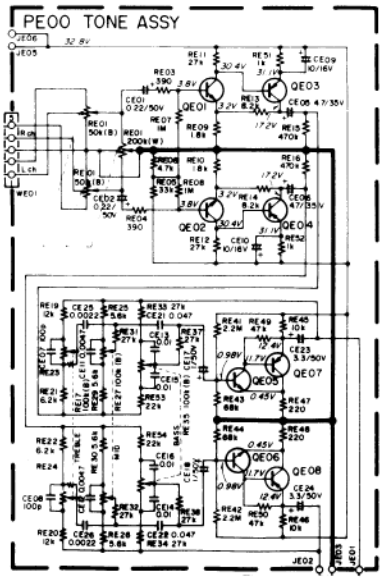
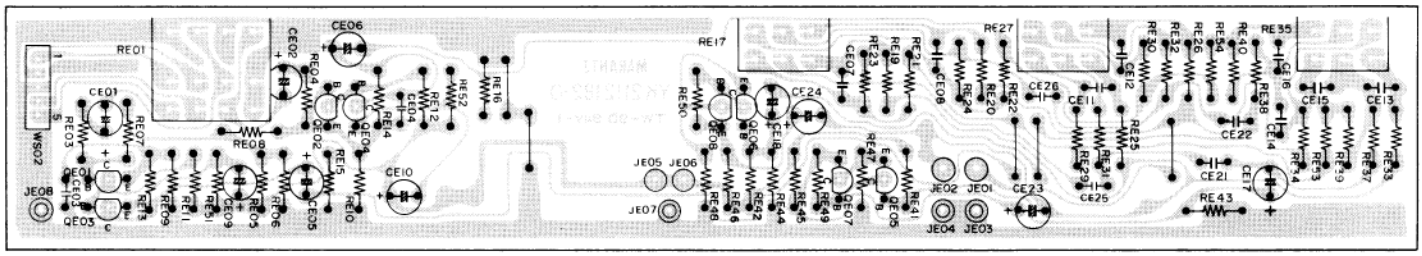
8.2 Main Amp/Power Supply Assembly (P700) Schematic Diagram and Component Locations



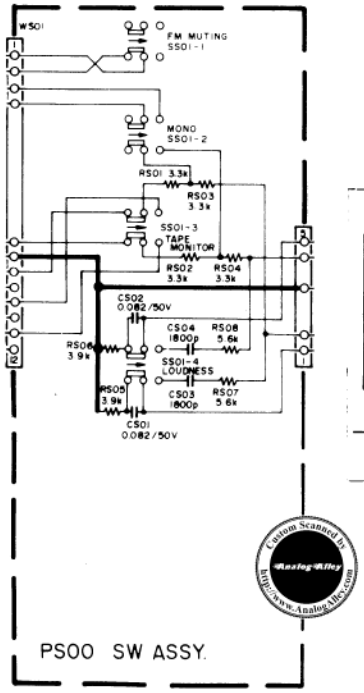


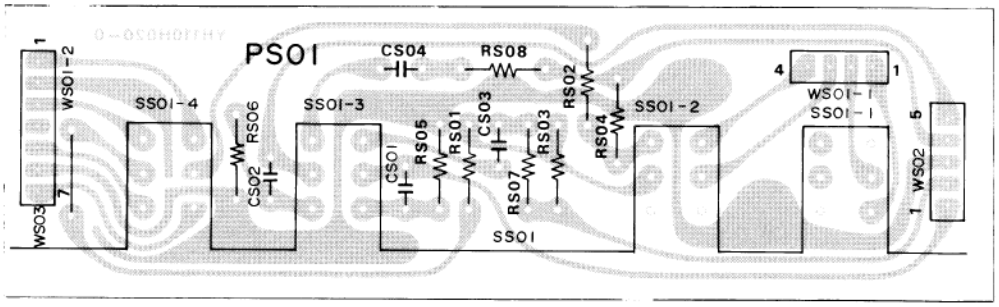
8.3 Tone Amp Assembly (PE00) Schematic Diagram and Component Locations



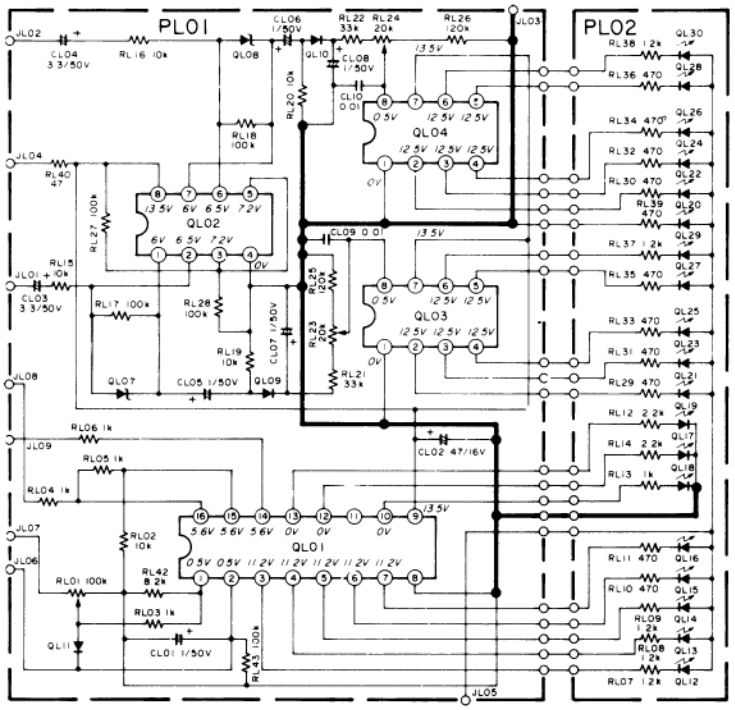


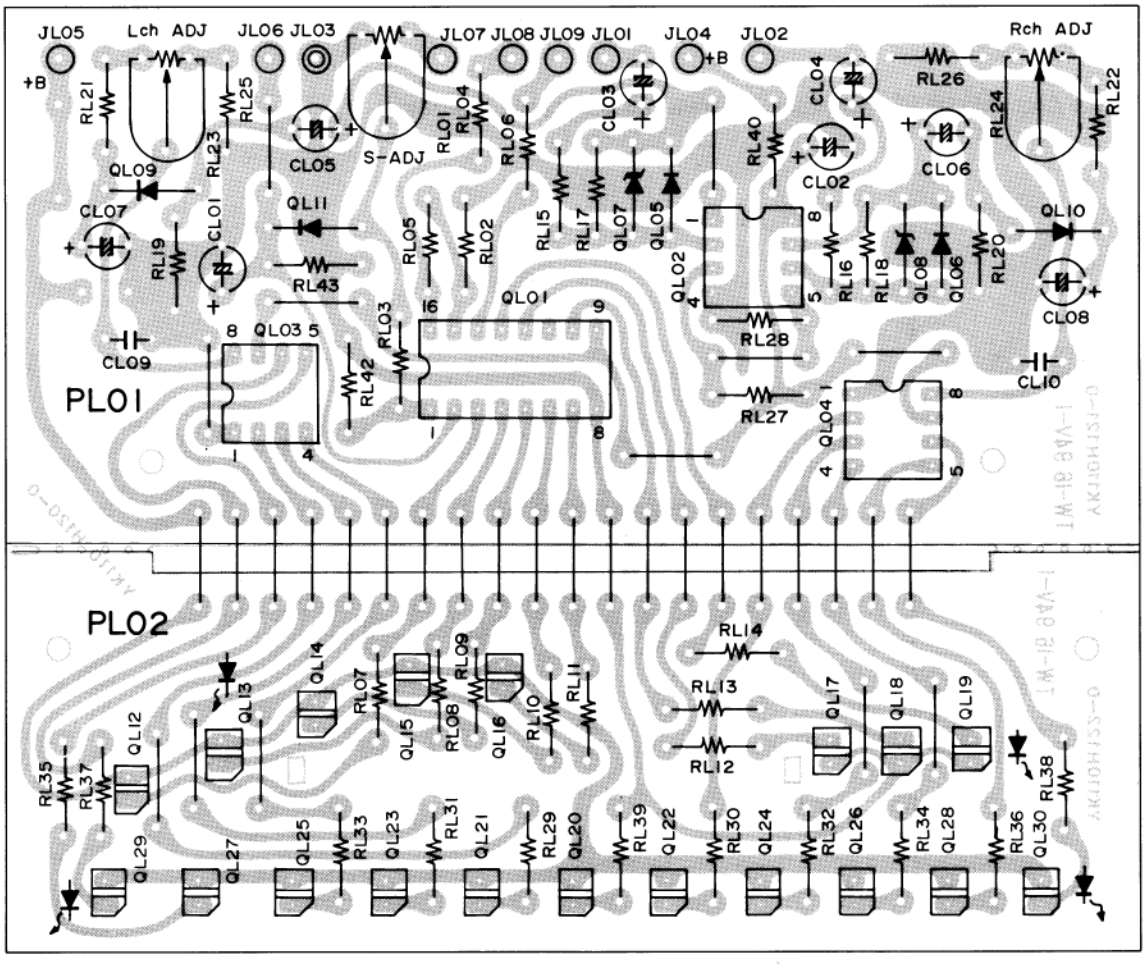
8.4 Push Switch Assembly (PS00) Schematic Diagram and Component Locations



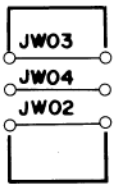


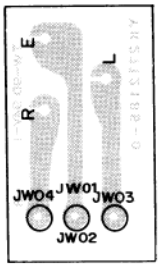
8.5 L.E.D. Driver and L.E.D. Assembly (PL01, PL02) Schematic Diagram and Component Locations



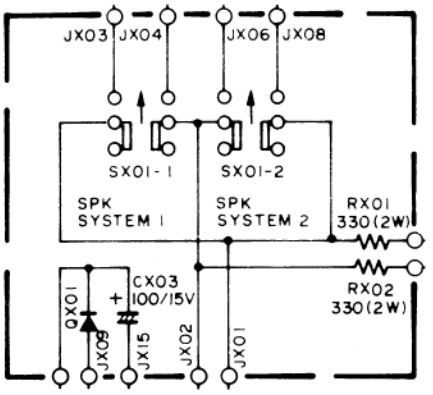


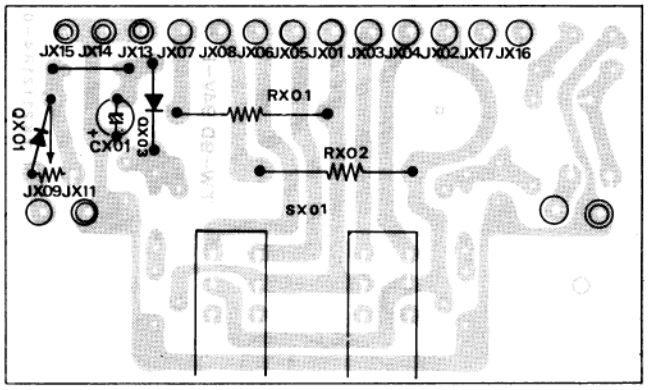
8.6 Headphone Jack Assembly (PW00) Schematic Diagram and Component Locations



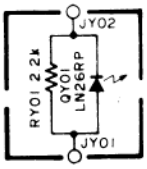


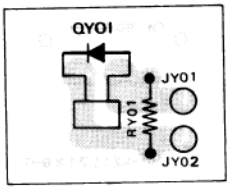
8.7 S.P.K. Switch Assembly (PX00) Schematic Diagram and Component Locations



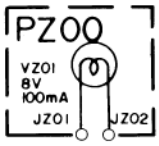


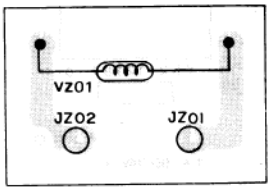
8.8 Stereo L.E.D. Assembly (PY00) Schematic Diagram and Component Locations





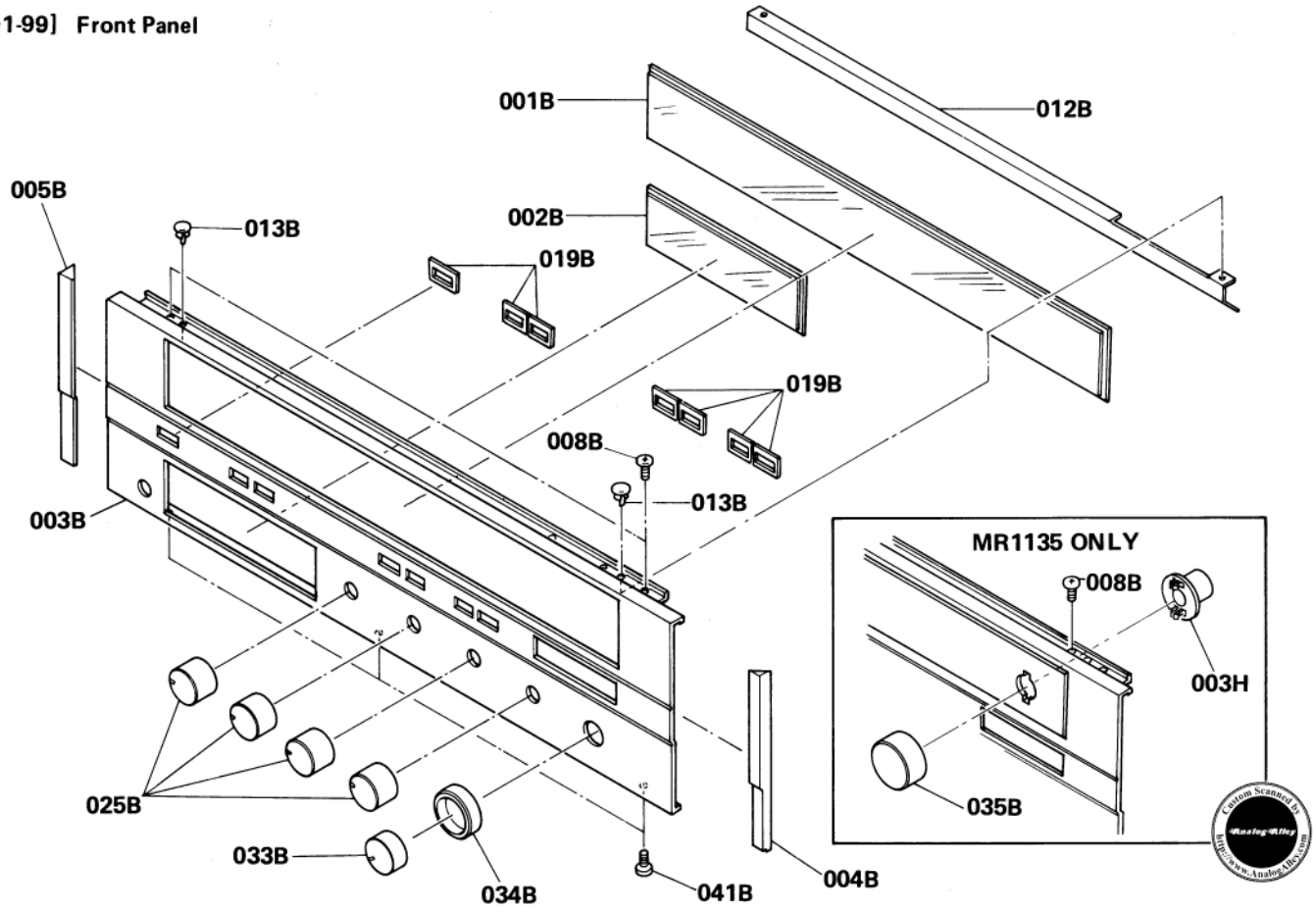
8.9 Dial Pointer Lamp Assembly (PZ00) Schematic Diagram and Component Locations





9. EXPLODED VIEWS AND PARTS LIST

[C01-99] Front Panel

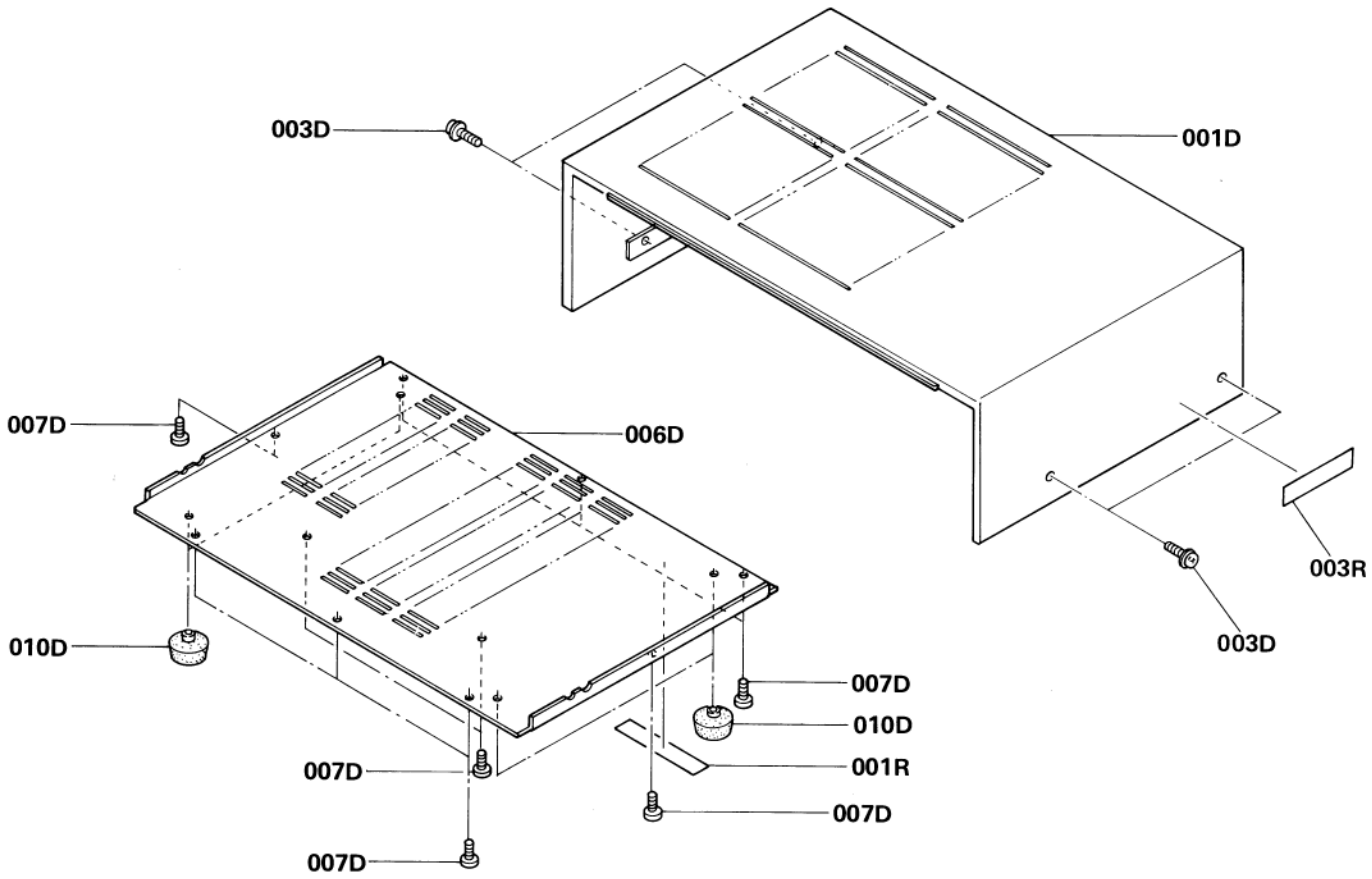


- (U): for U.S.A.
- (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
				SR3100 Only
A	1	1	110H063400	Front Panel Assembly
001B	1	1	2112158110	Window, Dial
002B	1	1	2112158120	Window, Meter
003B	1	1	110H063010	Escutcheon, Front Panel
004B	1	1	2112067010	Cap (R)
005B	1	1	2112067020	Cap (L)
012B	1	1	2112303210	Mask
013B	2	2	2276005050	Clamper
019B	7	7	216H259010	Bushing
				MR1135 Only
A	1	1	110H063410	Front Panel Assembly
001B	1	1	2116158010	Window, Dial
002B	1	1	2112158020	Window, Meter
003B	1	1	110H063020	Escutcheon, Front Panel
004B	1	1	2112067010	Cap (R)
005B	1	1	2112067020	Cap (L)
012B	1	1	2112303210	Mask
013B	2	2	2276005050	Clamper
019B	7	7	216H259010	Bushing

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
008B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
025B	4	4	110H154010	Knob
033B	1	1	110H154020	Knob
034B	1	1	110H154030	Knob
035B	1	1	110H154040	Knob (MR1135 Only)
040B	2	2	51100308A9	B.H.M. Screw B3 x 8
041B	3	3	51280308B0	B.H. Tapped Screw B3 x 8
003H	1	1	2116259110	Bushing

[C02-99] Top Cover



- (U) : for U.S.A.
- (C) : for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
001D	1	1	100H064710	Case
003D	4	4	51260420U0	B.T. Screw (W/W) B4 x 20
006D	1	1	2112257020	Lid, Bottom Cover
007D	10	10	51280410B0	B.H. Tapped Screw B4 x 10
010D	4	4	2259057010	Leg

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
001R		1	2911861110	Label
003R		1	2911861140	Label

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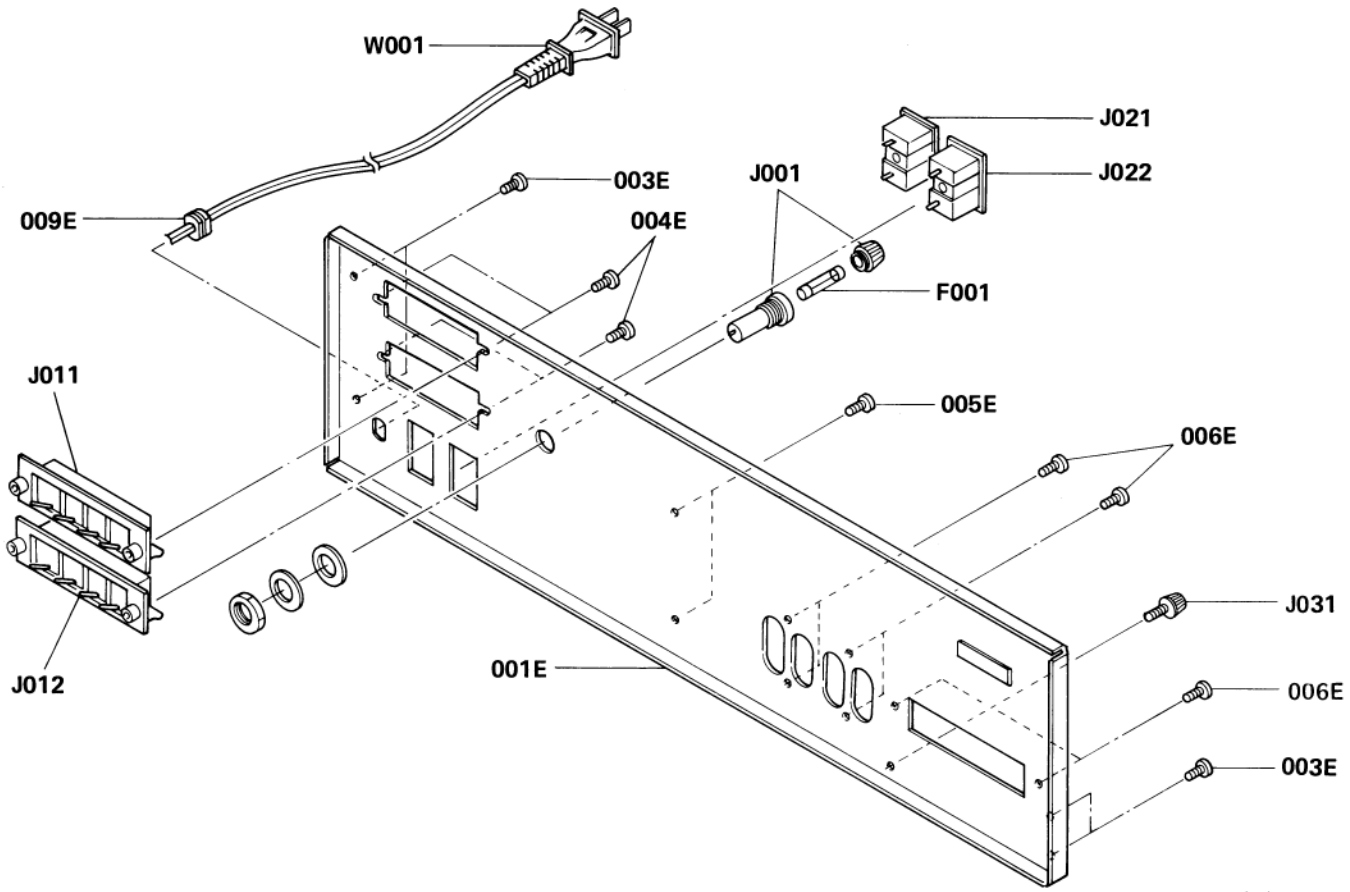
[C03-99] Rear Panel



- (U): for U.S.A.
- (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
001E	1		110H160210	Bracket, Rear Panel (SR3100 Only)
001E	1		110H160220	Bracket, Rear Panel (MR1135 Only)
001E		1	110H160230	Bracket, Rear Panel (SR3100 Only)
001E		1	110H160240	Bracket, Rear Panel (MR1135 Only)
003E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
005E	2	2	51280308U0	B.H. Tapped Screw B3 x 8
006E	6	6	51280308U0	B.H. Tapped Screw B3 x 8
009E	1	1	1455259030	Bushing
012E	1	1	62030049W0	Lug, GND
F001	1	1	FS10250500	Fuse 2.5A 250V

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
J001		1	YJ08000300	Jack, Fuse Holder (SR3100, MR1135)
J001	1		YJ08000310	Jack, Fuse Holder (SR3100, MR1135)
J011	1	1	YT03040170	Terminal, Speaker
J012	1	1	YT03040170	Terminal, Speaker
J021	1	1	YJ04000560	Jack, AC Outlet
J022	1	1	YJ04000560	Jack, AC Outlet
J031	1	1	YL03010250	Terminal, GND
W001	1	1	YC01900070	A.C. Power Cord

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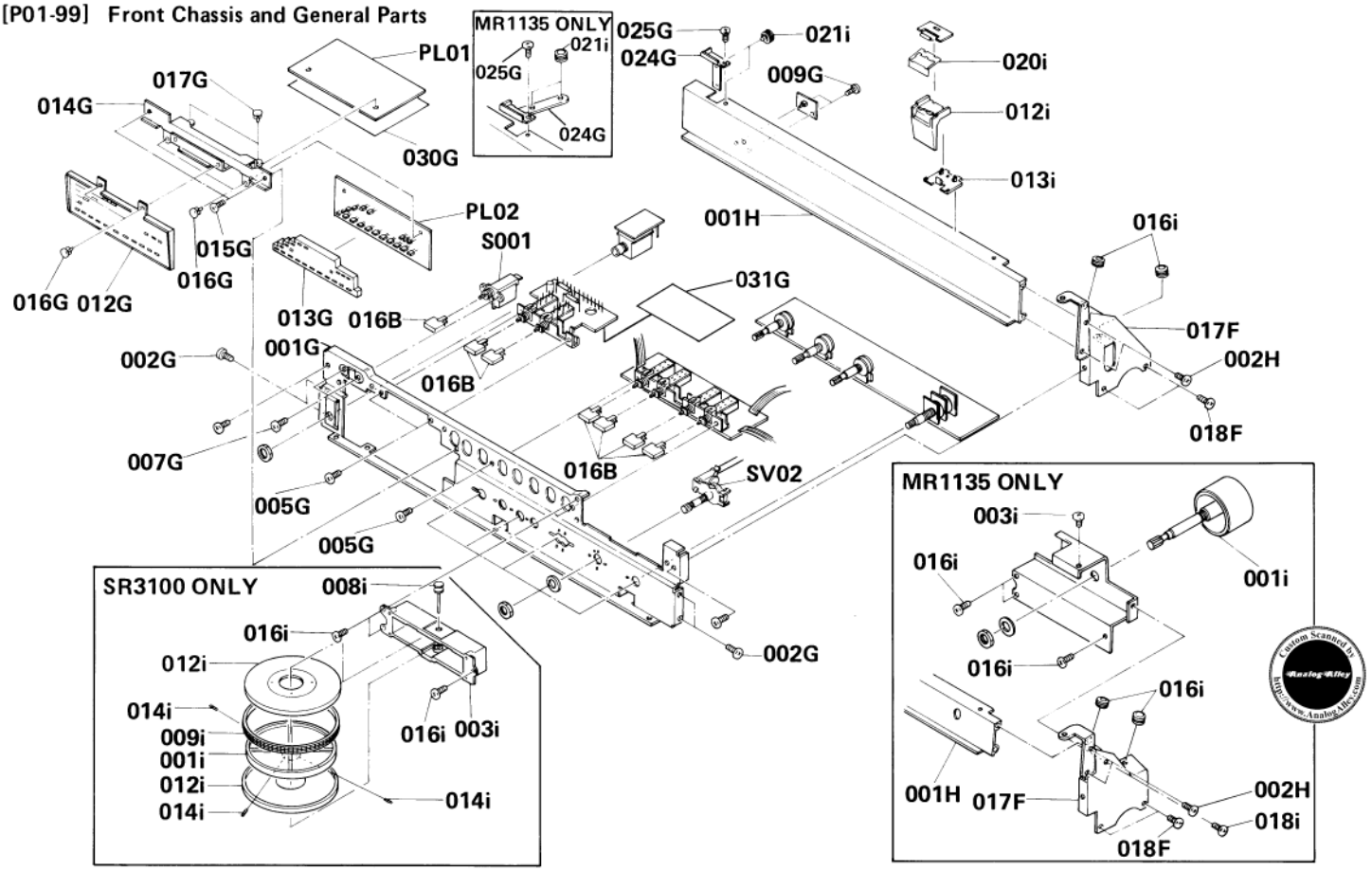
[P01-99] Front Chassis and General Parts

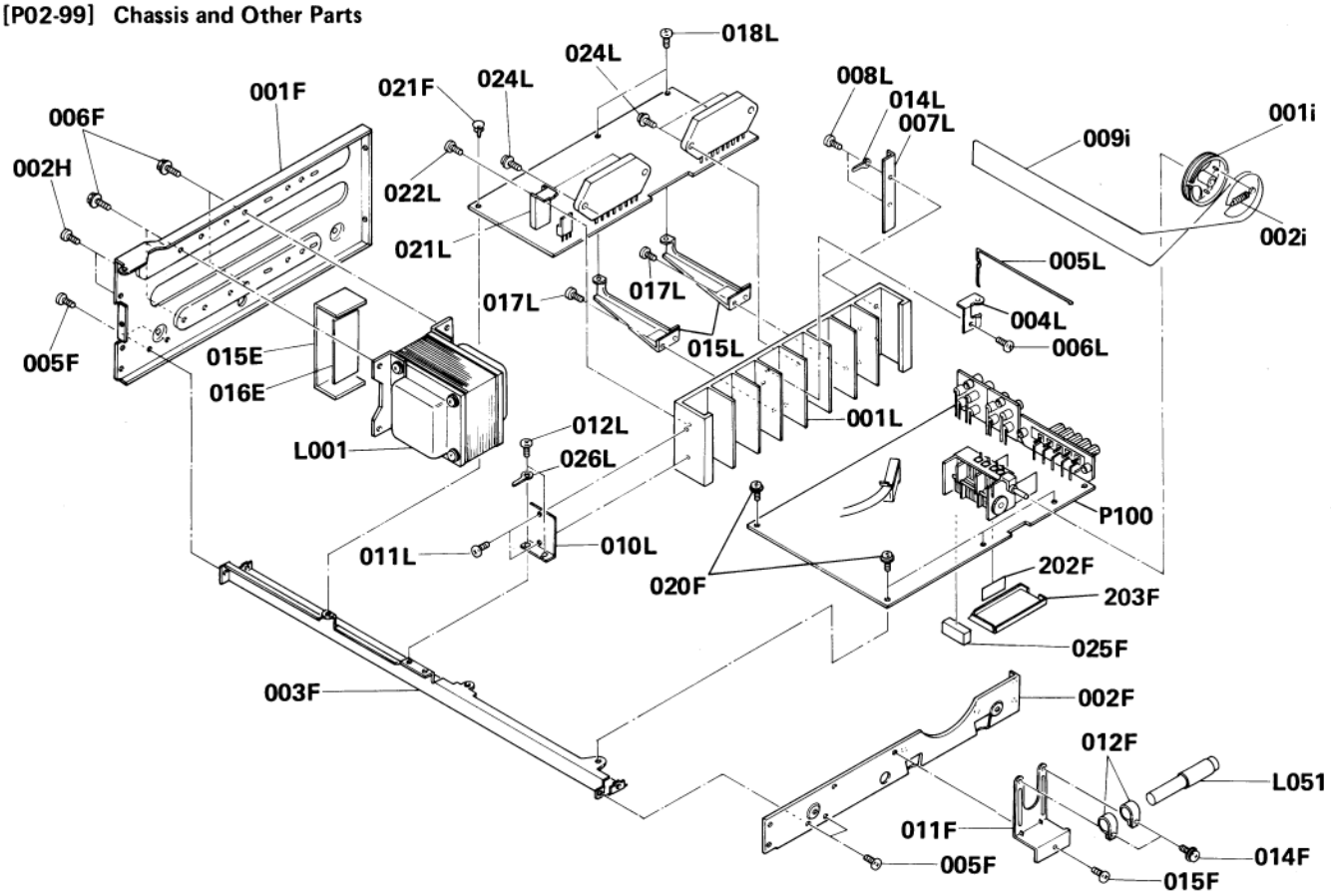


- (U): for U.S.A.
- (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
016B	7	7	216H154010	Knob, Push SW.
017F	1	1	2116160050	Bracket (SR3100 Only)
017F	1	1	2116160090	Bracket (MR1135 Only)
018F	2	2	51280308B0	B.H. Tapped Screw B3 x 8
001G	1	1	101H160010	Bracket, Front Chassis
002G	4	4	51280308B0	B.H. Tapped Screw B3 x 8
005G	4	4	51100306A9	B.H.M. Screw B3 x 6
007G	2	2	51100306A9	B.H.M. Screw B3 x 6
009G	2	2	51282605B0	B.H. Tapped Screw B2.6 x 5
012G	1	1	110H265010	Indicator
013G	1	1	101H259010	Bushing
014G	1	1	110H160010	Bracket
015G	2	2	51280308B0	B.H. Tapped Screw
016G	4	4	2276005050	Clamper
017G	2	2	2276005050	Clamper
024G	1	1	2112160070	Bracket (SR3100 Only)
024G	1	1	2116160110	Bracket (MR1135 Only)
025G	1	1	51280308B0	B.H. Tapped Screw B3 x 8
030G	1	1	2882120050	Insulator
031G	1	1	2896120020	Insulator
001H	1	1	2116302150	Dial (SR3100 Only)
001H	1	1	2133302210	Dial (MR1135 Only)
002H	2	2	51280308B0	B.H. Tapped Screw B3 x 8

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
012i	1	1	2112103010	Dial Pointer
013i	1	1	2112103020	Dial Pointer
016i	2	2	2276262500	Pulley, (K)
020i	1	1	2112303030	Mask
021i	2	2	2276262500	Pulley, (K)
001i	1	1	2116273500	Flywheel (MR1135 Only)
003i	1	1	2116160100	Bracket (MR1135 Only)
016i	3	3	51280308B0	B.H. Tapped Screw B3 x 8 (MR1135 Only)
017i	1	1	51280308B0	B.H. Tapped Screw B3 x 8 (MR1135 Only)
018i	1	1	51280308B0	B.H. Tapped Screw B3 x 8 (MR1135 Only)
001i	1	1	2219273010	Flywheel (SR3100 Only)
008i	1	1	2219112010	Shaft (SR3100 Only)
009i	1	1	2215353010	Ring (SR3100 Only)
012i	2	2	2219063230	Escutcheon (SR3100 Only)
014i	3	3	516903060 9	Socket Screw 3 x 6 (SR3100 Only)
016i	3	3	51280308B0	B.H. Tapped Screw B3 x 8 (SR3100 Only)
S001	1	1	SP01010240	Push Switch, Power
SV02	1	1	SR00040030	Rotary Switch

[P02-99] Chassis and Other Parts



- (U) : for U.S.A.
- (C) : for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
015E	1		2112267050	Heat Sink
016E	1		2112267060	Heat Sink
001F	1	1	2112105010	Chassis
002F	1	1	2112105020	Chassis
003F	1	1	2112126010	Stay
005F	4	4	51280308B0	B.H. Tapped Screw
006F	4	4	52040410A0	H. Head Bolt, S.F.
011F	1	1	2112271010	Holder
012F	2	2	1502271010	Holder
014F	2	2	51260310B0	B.T. Screw (W/W) B3 x 10
015F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
020F	4	4	51260308B0	B.T. Screw (W/W) B3 x 8
021F	1	1	2276005050	Clamper
025F	1	1	2116056010	Buffer
202F	1	1	2259109060	Shield
203F	1	1	2112109010	Shield
002H	2	2	51280308B0	B.H. Tapped Screw B3 x 8
001i	1	1	2112159010	Drum
002i	1	1	2112115020	Spring
009i	1	1	72040805A0	String (180)

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
001L	1	1	2112267030	Heat Sink
004L	1	1	2112271020	Holder
005L	1	1	2112272010	Pole
006L	1	1	51280308B0	B.H. Tapped Screw B3 x 8
007L	1	1	2112160040	Bracket
008L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
010L	1	1	2276160040	Bracket
011L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
014L	1	1	62030049W0	Lug
015L	2	2	2112160050	Bracket
017L	4	4	51280308B0	B.H. Tapped Screw B3 x 8
018L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
021L	1	1	2207267020	Heat Sink
022L	1	1	51280315B0	B.H. Tapped Screw B3 x 15
024L	4	4	51780315B0	Fin Neck B.T.
026L	1	1	62030049W0	Lug
L001	1		TS17614020	Power Transformer
L001		1	TS17614010	Power Transformer
L051	1		LF11000240	Antenna Coil
L051		1	LF11000250	Antenna Coil

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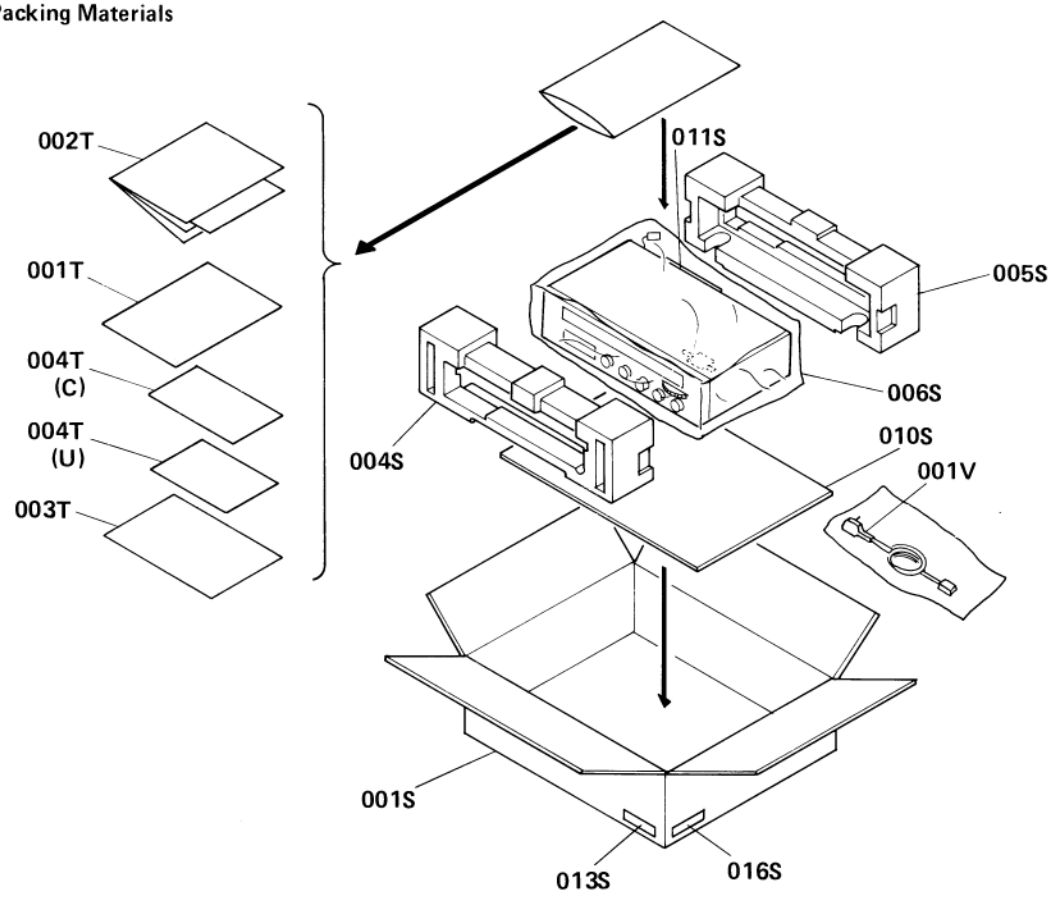
[H01-99] Packing Materials



- (U): for U.S.A.
- (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
001S	1	1	110H801010	Packing Case (SR3100 Only)
001S	1	1	110H801020	Packing Case (MR1135 Only)
004S	1	1	2112809010	Cushion
005S	1	1	2112809020	Cushion
006S	1	1	9090909040	Polyethylene Sheet
010S	1	1	2918107250	Sheet
011S	1	1	2918107380	Sheet
013S	4		9526019010	Serial No. Card
013S		4	9526019020	Serial No. Card
016S		2	9510901020	Label
001T	1	1	110H851210	Instructions
002T	1	1	110H851220	Instructions (SR3100 Only)
002T	1	1	110H811250	Instructions (MR1135 Only)
003T	1		2818854020	Guarantee Card
003T		1	2818854040	Guarantee Card
004T	1		2225813010	Envelope
004T		1	9650000050	S. Station Cord

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
001V	1	1	ZA02000070	Ext. Antenna

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10. ELECTRICAL PARTS

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
				P100-TUNER CIRCUIT BOARD
P100	1	1	YG21120010	P.W. Board, Tuner
	1	1	ZZ110H0010	P.W. Board Assembly
				P100-CAPACITORS
CA01	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA02	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA03	1	1	EA10601690	Elect 10μF 16V
CA04	1	1	EA10602530	Elect 10μF 25V
CA05	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA06	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA07	1	1	DF17103300	Film 0.01μF ±20%
CA08	1	1	EA33405030	Elect 0.33μF 50V
CA09	1	1	EA33505090	Elect 3.3μF 50V
CA10	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA11	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA12	1	1	DD15470370	Ceramic 47μF ±5%
CA14	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA15	1	1	DF55361090	Film 360pF ±5%
CA16	1	1	DD11100400	Ceramic 10pF ±0.5pF
CA17	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CA18	1	1	EA22601690	Elect 22μF 16V
CA20	1	1	EA22601690	Elect 22μF 16V
CA21	1	1	DK18223320	Ceramic 0.022μF +80% −20%
CA22	1	1	DD11070300	Ceramic 7pF ±0.5pF
CV01	1	1	DK18103320	Ceramic 0.01μF +80% −20%
CV02	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C101	1	1	DD11100300	Ceramic 10pF ±0.5pF
C103	1	1	EA33405030	Elect 0.33μF 50V
C104	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C105	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C106	1	1	DK18223320	Ceramic 0.022μF +80% −20%
C107	1	1	DD15150300	Ceramic 15pF ±5%
C108	1	1	DD10050370	Ceramic 5pF ±0.25pF
C109	1	1	DD15150370	Ceramic 15pF ±5%
C110	1	1	DD15301360	Ceramic 300pF ±5%
C111	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C113	1	1	DD10010300	Ceramic 1pF ±0.25pF
C114	1	1	CT11000080	Trimming 10pF ±0.5pF
C115	1	1	DD15150340	Ceramic 15pF ±5%
C116	1	1	DD11100300	Ceramic 10pF ±0.5pF
C117	1	1	DD15300300	Ceramic 30pF ±5%
C118	1	1	DD15150300	Ceramic 15pF ±5%
C119	1	1	DK18223320	Ceramic 0.022μF +80% −20%
C120	1	1	CA32400100	Variable, FM-3, AM-2
C122	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C201	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C202	1	1	DK18223320	Ceramic 0.022μF +80% −20%
C203	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C205	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C206	1	1	EA22505030	Elect 2.2μF 50V
C207	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C208	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C209	1	1	EA10505030	Elect 1μF 50V
C210	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C212	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C214	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C215	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C216	1	1	EA47405030	Elect 0.47μF 50V
C217	1	1	EA10602530	Elect 10μF 25V
C218	1	1	EA10601690	Elect 10μF 16V
C219	1	1	DD15151371	Ceramic 150pF ±5%
C222	1	1	DK18403320	Ceramic 0.04μF
C302	1	1	DF17473300	Film 0.047μF ±20%
C303	1	1	DF55471090	Film 470pF ±5%
C304	1	1	EA33505090	Elect 3.3μF 50V
C305	1	1	EA22505030	Elect 2.2μF 50V
C306	1	1	EQ22405030	Elect 0.22μF ±20%
C307	1	1	DD15471360	Ceramic 470pF ±5%
C308	1	1	EA47601690	Elect 47μF 16V
C309	1	1	DD15470370	Ceramic 47pF ±5%
C310	1	1	DD15470370	Ceramic 47pF ±5%
C311	1	1	EA10602530	Elect 10μF 25V
C312	1	1	EA10601690	Elect 10μF 16V
C313	1	1	EA10602530	Elect 10μF 25V
C314	1	1	EA10602530	Elect 10μF 25V
C315	1	1	EA47405030	Elect 0.47μF 50V
C316	1	1	EA47405030	Elect 0.47μF 50V
C317	1	1	DF16272300	Film 2700pF ±10%
C318	1	1	DF16272300	Film 2700pF ±10%
C319	1	1	EA47405030	Elect 0.47μF 50V
C320	1	1	EA47405030	Elect 0.47μF 50V
C312	1	1	EA10505030	Elect 1μF 50V
C327	1	1	EA47601690	Elect 47μF 16V
C328	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C329	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C330	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C401	1	1	EA33505030	Elect 3.3μF 50V
C402	1	1	EA33505030	Elect 3.3μF 50V
C403	1	1	DD15470370	Ceramic 47pF ±5%
C404	1	1	DD15470370	Ceramic 47pF ±5%
C405	1	1	EA10701090	Elect 100μF 10V
C406	1	1	EA10701090	Elect 100μF 10V
C407	1	1	DK16221300	Ceramic 220pF ±5%
C408	1	1	DK16221300	Ceramic 220pF ±5%
C409	1	1	DF16123350	Film 0.012μF ±10%
C410	1	1	DF16123350	Film 0.012μF ±10%
C411	1	1	DF16332300	Film 0.0033μF ±10%
C412	1	1	DF16332300	Film 0.0033μF ±10%
C413	1	1	EA10505030	Elect 1μF 50V
C414	1	1	EA10603590	Elect 10μF 35V
C415	1	1	EA10505030	Elect 1μF 50V
C416	1	1	EA10505030	Elect 1μF 50V
C417	1	1	DK16221300	Ceramic 220pF ±10%
C418	1	1	DK16221300	Ceramic 220pF ±10%
				P100-RESISTORS (All Resistors are ±5% and 1/4W)
RA02	1	1	GD05103140	10kΩ
RA03	1	1	GD05103140	10kΩ
RA04	1	1	GD05223140	22kΩ
RA05	1	1	GD05223140	2.2kΩ
RA06	1	1	GD05121140	120Ω
RA07	1	1	GD05102140	1kΩ
RA08	1	1	GD05563140	56kΩ
RA09	1	1	GD05273140	27kΩ
RA10	1	1	GD05104140	100kΩ
RA11	1	1	GD05333140	33kΩ

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• (U): for U.S.A.
• (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
RA12	1	1	GD05104140	100kΩ
RA13	1	1	GD05152140	1.5kΩ
RA14	1	1	GD05222140	2.2kΩ
RA15	1	1	GD05470140	47Ω
RA18	1	1	GD05473140	47kΩ
RA19	1	1	GD05222140	2.2kΩ
R101	1	1	GD05104140	100kΩ
R102	1	1	GD05680140	68Ω
R103	1	1	GD05101140	100Ω
R104	1	1	GD05101140	100Ω
R105	1	1	GD05223140	22kΩ
R107	1	1	GD05223140	22kΩ
R108	1	1	GD05472140	4.7kΩ
R109	1	1	GD05102140	1kΩ
R110	1	1	GG05183140	18kΩ
R111	1	1	GD05183140	10kΩ
R112	1	1	GD05272140	2.7kΩ
R113	1	1	GD05103140	10kΩ
R114	1	1	GD05101140	100Ω
R115	1	1	GD05470140	47Ω
R201	1	1	GD05331140	330Ω
R202	1	1	GD05272140	2.7kΩ
R203	1	1	GD05153140	15kΩ
R204	1	1	GD05331140	330Ω
R205	1	1	GD05561140	560Ω
R207	1	1	RA05030090	50kΩ (B) Trimming
R208	1	1	GD05104140	100kΩ
R209	1	1	GD05103140	10kΩ
R210	1	1	GD05222140	2.2kΩ
R211	1	1	GD05124140	120kΩ
R212	1	1	GD05682140	6.8kΩ
R213	1	1	GD05470140	47Ω
R214	1	1	GD05103140	10kΩ
R215	1	1	GD05332140	3.3kΩ
R216	1	1	GD05331140	330Ω
R219	1	1	GD05154140	150kΩ
R221	1	1	GD05682140	6.8kΩ
R227	1	1	GD05473140	47kΩ
R301	1	1	GD05473140	47kΩ
R302	1	1	GD05222140	2.2kΩ
R303	1	1	GD05153140	15kΩ
R304	1	1	RA05020160	5kΩ (B) Trimming
R305	1	1	GD05102140	1kΩ
R306	1	1	GD05101140	100Ω
R307	1	1	GD05223140	22kΩ
R308	1	1	GD05223140	22kΩ
R309	1	1	GD05473140	47kΩ
R310	1	1	GD05473140	47kΩ
R311	1	1	GD05393140	39kΩ
R312	1	1	GD05393140	39kΩ
R313	1	1	RA05040090	500kΩ (B) Trimming
R315	1	1	GD05472140	4.7kΩ
R316	1	1	GD05472140	4.7kΩ
R317	1	1	GD05472140	4.7kΩ
R318	1	1	GD05472140	4.7kΩ
R319	1	1	GD05273140	27kΩ

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
R320	1	1	GD05273140	27kΩ
R321	1	1	GD05473140	47kΩ
R322	1	1	GD05184140	180kΩ
R323	1	1	GD05564140	560kΩ
R324	1	1	GD05564140	560kΩ
R325	1	1	GD06392140	3.9kΩ
R326	1	1	GD05392140	3.9kΩ
R327	1	1	GD05821140	820Ω
R328	1	1	GD05821140	820Ω
R329	1	1	GD05473140	47kΩ
R330	1	1	GD05473140	47kΩ
R331	1	1	GD05101140	100Ω
R332	1	1	GD05101140	100Ω
R333	1	1	GD05272140	2.7kΩ
R335	1	1	GD05222140	2.2kΩ
R337	1	1	GD05183140	18kΩ
R401	1	1	GD05222140	2.2kΩ
R402	1	1	GD05222140	2.2kΩ
R403	1	1	GD05471140	470Ω
R404	1	1	GD05471140	470Ω
R405	1	1	GD05563140	56kΩ
R406	1	1	GD05563140	56kΩ
R407	1	1	GD05394140	390kΩ
R408	1	1	GD05394140	390kΩ
R409	1	1	GD05184140	180kΩ
R410	1	1	GD05184140	180kΩ
R411	1	1	GD05274140	270kΩ
R412	1	1	GD05274140	270kΩ
R413	1	1	GD05223140	22kΩ
R414	1	1	GD05223140	22kΩ
R417	1	1	GD05224140	220kΩ
R418	1	1	GD05224140	220kΩ
R419	1	1	GD05223140	22kΩ
R420	1	1	GD05223140	22kΩ
R421	1	1	GD05220140	22Ω
R422	1	1	GD05184140	180kΩ
R423	1	1	GD05471140	470Ω
R424	1	1	GD05471140	470Ω
				P100-SEMICONDUCTORS
QA01	1	1	HC10025060	IC μPC1178C
QA02	1	1	HV00006120	Varistor MV-203
QA03	1	1	HT326342B0	Transistor 2SC2634 (S or T)
QA04	1	1	HD20001210	Diode 1S2473
Q101	1	1	HF400451B0	F.E.T. 3SK45 (B)
Q102	1	1	HT310471C0	Transistor 2SC1047 (C)
Q103	1	1	HT308291C0	Transistor 2SC829 (C)
Q201	1	1	HT308291C0	Transistor 2SC829 (C)
Q202	1	1	HC10028030	IC LA1231
Q203	1	1	HD20001210	Diode 1S2473
Q204	1	1	HD20001210	Diode 1S2473
Q301	1	1	HC10024060	IC μPC11610
Q302	1	1	HD20001210	Diode 1S1555
Q303	1	1	HT326342B0	Transistor 2SC2634 (S or T)
Q304	1	1	HT326342B0	Transistor 2SC2634 (S or T)
Q305	1	1	HD20001210	Diode 1S1555
Q401	1	1	HC10012060	IC μPC1024H
Q402	1	1	HC10012060	IC μPC1024H

• (U): for U.S.A.
• (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
				P100-MISCELLANEOUS
FA01	1	1	FF10045200	Ceramic Filter 450 kHz
F201	1	1	FF11070050	Ceramic Filter SFE10.7MD1
F202	1	1	FF11070050	Ceramic Filter SFE10.7MD1
F203	1	1	FF11070050	Ceramic Filter SFE10.7MD1
JV01	1	1	VT02040360	Terminal, RCA Phono/Aux
JV02	1	1	VT02040360	Terminal, RCA Tape In/Out
JV03	1	1	VT01050010	Terminal, Antenna
LA01	1	1	LC11540020	Choke Coil 150μH
LA04	1	1	LO10010480	OSC Coil
LA05	1	1	LI10010730	I.F.T. 450 kHz
LA06	1	1	LI10010740	I.F.T. 450 kHz
L101	1	1	LA12026170	Ant. Coil
L102	1	1	LL24800030	Coil
L103	1	1	LK11800030	Coil
L104	1	1	LC17510010	Choke Coil 0.75μH
L105	1	1	LO12036010	OSC Coil
L106	1	1	I.F.T.	
L201	1	1	LI14016240	I.F.T.
L203	1	1	LC11830010	Choke Coil 18μH
L301	1	1	LS20013010	M.P.X. Coil
L302	1	1	LS20013010	M.P.X. Coil
KS00	1	1	SR04040150	Rotary Switch, Selector
				P700-MAIN AMP POWER SUPPLY CIRCUIT BOARD
P700	1	1	YK21121810	P.W. Board, Main Amp/Power Supply
	1		ZZ110H1810	P.W. Board Assembly
		1	ZZ110H2810	P.W. Board Assembly
				P700-CAPACITORS
C701	1	1	DD15471370	Ceramic 470pF ±5%
C702	1	1	DD15471370	Ceramic 470pF ±5%
C703	1	1	EA10505030	Elect 1μF 50V
C704	1	1	EA10505030	Elect 1μF 50V
C705	1	1	EA47601690	Elect 47μF 16V
C706	1	1	EA47601690	Elect 47μF 16V
C707	1	1	EA10505030	Elect 1μF 50V
C708	1	1	EA10505030	Elect 1μF 50V
C709	1	1	DD11060370	Ceramic 6pF ±0.5pF
C710	1	1	DD11060370	Ceramic 6pF ±0.5pF
C711	1	1	DF17104540	Film 0.1μF ±20%
C712	1	1	DF17104540	Film 0.1μF ±20%
C713	1	1	EA22705090	Elect 220μF 50V
C714	1	1	EA22705090	Elect 220μF 50V
C715	1	1	EA22705090	Elect 220μF 50V
C716	1	1	EA22705090	Elect 220μF 50V
C719	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C721	1	1	DK18103300	Ceramic 0.01μF +80% −20%
C722	1	1	DK18103300	Ceramic 0.01μF +80% −20%
C723	1	1	EA10605030	Elect 10μF 50V
C724	1	1	EA10605030	Elect 10μF 50V
C725	1	1	EA10605030	Elect 10μF 50V
C726	1	1	EA10605030	Elect 10μF 50V
C727	1	1	DD15331360	Ceramic 330pF ±5%
C728	1	1	DD15331360	Ceramic 330pF ±5%
C729	1		DK16221550	Ceramic 220pF ±10%
C730	1		DK16221550	Ceramic 220pF ±10%
C731	1		DK16221550	Ceramic 220pF ±10%
C732	1		DK16221550	Ceramic 220pF ±10%

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
C801	1	1	DK18103510	Ceramic 0.01μF +80% −20%
C802	1	1	DK18103510	Ceramic 0.01μF +80% −20%
C803	1	1	EB10904210	Elect 10000μF 42V
C804	1	1	EB10904210	Elect 10000μF 42V
C806	1	1	DK18103510	Ceramic 0.01μF +80% −20%
C807	1	1	EA47706390	Elect 470μF 63V
C808	1	1	EA47606390	Elect 47μF 63V
C809	1	1	EA22605090	Elect 22μF 50V
C810	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C811	1	1	EA22701690	Elect 220μF 16V
C812	1	1	EA10602530	Elect 10μF 25V
C813	1	1	EA10603530	Elect 10μF 35V
C814	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C815	1	1	EA10602530	Elect 10μF 25V
C816	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C817	1	1	EA22701090	Elect 220μF 10V
C818	1	1	EA47606390	Elect 47μF 63V
C819	1	1	DK18103321	Ceramic 0.01μF
				P700-RESISTORS (All Resistors are ±5% and 1/4W)
R701	1	1	GD05102140	1kΩ
R702	1	1	GD05102140	1kΩ
R703	1	1	GD05334140	330kΩ
R704	1	1	GD05334140	330kΩ
R705	1	1	GD05273140	27kΩ
R706	1	1	GD05273140	27kΩ
R707	1	1	GD05122140	1.2kΩ
R708	1	1	GD05122140	1.2kΩ
R709	1	1	GD05273140	27kΩ
R710	1	1	GD05273140	27kΩ
R711	1	1	GA05100010	10Ω 1W
R712	1	1	GA05100010	10Ω 1W
R713	1	1	GG05101140	100Ω
R714	1	1	GG05101140	100Ω
R715	1	1	GG05101140	100Ω
R716	1	1	GG05101140	100Ω
R717	1	1	RC10047120	4.7Ω ±10% 1/2W
R718	1	1	RC10047120	4.7Ω ±10% 1/2W
R719	1	1	GD05100140	10Ω
R720	1	1	GD05100140	10Ω
R801	1	1	RC10225120	2.2MΩ ±10% 1/2W
R802	1	1	GA05102020	1kΩ 2W
R803	1	1	GG05102140	1kΩ
R804	1	1	GG05182140	1.8kΩ
R805	1	1	GG05102140	1kΩ
R806	1	1	GP05131050	130Ω
R807	1	1	GD05103140	10kΩ
R808	1	1	GD05103140	10kΩ
R809	1	1	GD05222140	2.2kΩ
R810	1	1	GD05473140	47kΩ
R811	1	1	GD05103140	10kΩ
R812	1	1	GD05824140	820kΩ
R813	1	1	GD05100140	10Ω
R815	1	1	GD05273140	27kΩ
R816	1	1	GD05153140	15kΩ
R817	1	1	GD05104140	100kΩ
R818	1	1	GD05152140	1.5kΩ
R819	1	1	GD05103140	10kΩ
R820	1	1	GG05100140	10Ω

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• (U): for U.S.A.
• (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
J807		1	YJ08000170	Jack, Fuse Holder
J808		1	YJ08000170	Jack, Fuse Holder
J809		1	YJ08000170	Jack, Fuse Holder
J810		1	YJ08000170	Jack, Fuse Holder
L701	1	1	LL23915120	Coil
L702	1	1	LL23915120	Coil
L801	1	1	LC13320050	Choke Coil 3.3μH
				PE00-TONE AMP CIRCUIT BOARD
PE00	1	1	YK21121820	P.W. Board, Tone Amp.
	1	1	ZZ21121820	P.W. Board Assembly
				PE00-CAPACITORS
CE01	1	1	EA22405030	Elect 0.22μF 50V
CE02	1	1	EA22405030	Elect 0.22μF 50V
CE05	1	1	EA47503590	Elect 4.7μF 35V
CE06	1	1	EA47503530	Elect 4.7μF 35V
CE07	1	1	DD15101370	Ceramic 100pF ±5%
CE08	1	1	DD15101370	Ceramic 100pF ±5%
CE09	1	1	EA10601690	Elect 10μF 16V
CE10	1	1	EA10601630	Elect 10μF 16V
CE11	1	1	DF17472300	Film 0.0047μF ±20%
CE12	1	1	DF17472300	Film 0.0047μF ±20%
CE13	1	1	DF17103300	Film 0.01μF ±20%
CE14	1	1	DF17103300	Film 0.01μF ±20%
CE15	1	1	DF17103300	Film 0.01μF ±20%
CE16	1	1	DF17103300	Film 0.01μF ±20%
CE17	1	1	EA10505030	Elect 1μF 50V
CE18	1	1	EA10505030	Elect 1μF 50V
CE21	1	1	DF17472300	Film 0.0047μF ±20%
CE22	1	1	DF17472300	Film 0.0047μF ±20%
CE23	1	1	EA33505030	Elect 3.3μF 50V
CE24	1	1	EA33505090	Film 3.3μF 50V
CE25	1	1	DF17222300	Film 0.0022μF ±20%
CE26	1	1	DF17222300	Film 0.0022μF ±20%
				PE00-RESISTORS (All Resistors are ±5% and 1/4W)
RE01	1	1	RQ02040020	50kΩ (B) x 2, 200kΩ Variable
RE03	1	1	GD05391140	390Ω
RE04	1	1	GD05391140	390Ω
RE05	1	1	GD05333140	33kΩ
RE06	1	1	GD05472140	4.7kΩ
RE07	1	1	GD05105140	1MΩ
RE08	1	1	GD05105140	1MΩ
RE09	1	1	GD05182140	1.8kΩ
RE10	1	1	GD05182140	1.8kΩ
RE11	1	1	GD05123140	12kΩ
RE12	1	1	GD05123140	12kΩ
RE13	1	1	GD05822140	8.2kΩ
RE14	1	1	GD05822140	8.2kΩ
RE15	1	1	GD05474140	470kΩ
RE16	1	1	GD05474140	470kΩ
RE17	1	1	RM01040150	100kΩ (B) x 2, Variable
RE19	1	1	GD05123140	12kΩ
RE20	1	1	GD05123140	12kΩ
RE21	1	1	GD05822140	8.2kΩ
RE22	1	1	GD05822140	8.2kΩ

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REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
RE25	1	1	GD05562140	5.6kΩ
RE26	1	1	GD05562140	5.6kΩ
RE27	1	1	RM01040150	100kΩ (B) x 2, Variable
RE29	1	1	GD05562140	5.6kΩ
RE30	1	1	GD05562140	5.6kΩ
RE31	1	1	GD05273140	27kΩ
RE32	1	1	GD05273140	27kΩ
RE33	1	1	GD05273140	27kΩ
RE34	1	1	GD05273140	27kΩ
RE35	1	1	RM01040150	100kΩ (B) x 2, Variable
RE37	1	1	GD05273140	27kΩ
RE38	1	1	GD05273140	27kΩ
RE41	1	1	GD05225140	2.2MΩ
RE42	1	1	GD05225140	2.2MΩ
RE43	1	1	GD05683140	68kΩ
RE44	1	1	GD05683140	68kΩ
RE45	1	1	GD05103140	10kΩ
RE46	1	1	GD05103140	10kΩ
RE47	1	1	GD05221140	220Ω
RE48	1	1	GD05221140	220Ω
RE49	1	1	GD05473140	47kΩ
RE50	1	1	GD05473140	47kΩ
RE51	1	1	GD05102140	1kΩ
RE52	1	1	GD05102140	1kΩ
RE53	1	1	GD05223140	22kΩ
RE54	1	1	GD05223140	22kΩ
				PE00-SEMICONDUCTORS
QE01	1	1	HT326342B0	Transistor 2SC2634 (S or T)
QE02	1	1	HT326342B0	Transistor 2SC2634 (S or T)
QE03	1	1	HT111272B0	Transistor 2SA1127 (S or T)
QE04	1	1	HT111272B0	Transistor 2SA1127 (S or T)
QE05	1	1	HT326342B0	Transistor 2SC2634 (S or T)
QE06	1	1	HT326342B0	Transistor 2SC2634 (S or T)
QE07	1	1	HT111272B0	Transistor 2SA1127 (S or T)
QE08	1	1	HT111272B0	Transistor 2SA1127 (S or T)
				PL01-L.E.D. DRIVER CIRCUIT BOARD
PL01	1	1	YK110H1210	P.W. Board, L.E.D. Driver
	1	1	ZZ110H1210	P.W. Board Assembly
				PL01-CAPACITORS
CL01	1	1	EA10505030	Elect 1μF 50V
CL03	1	1	EA33505030	Elect 3.3μF 50V
CL04	1	1	EA33505030	Elect 3.3μF 50V
CL05	1	1	EA10505030	Elect 1μF 50V
CL06	1	1	EA10505030	Elect 1μF 50V
CL07	1	1	EA10505030	Elect 1μF 50V
CL08	1	1	EA10505030	Elect 1μF 50V
CL09	1	1	DK18103310	Ceramic 0.01μF
CL10	1	1	DK18103310	Ceramic 0.01μF
CL11	1	1	EA47601630	Elect 47μF 16V
				PL01-RESISTORS (All Resistors are ±5% and 1/4W)
RL01	1	1	RA0104110	100kΩ (B) Trimming 0.1W
RL02	1	1	GD05104140	100kΩ
RL03	1	1	GD05103140	10kΩ
RL04	1	1	GD05102140	1kΩ
RL05	1	1	GD05103140	10kΩ
RL06	1	1	GD05102140	1kΩ
RL15	1	1	GD05103140	10Ω
RL16	1	1	GD05103140	10kΩ
RL17	1	1	GD05104140	100kΩ
RL18	1	1	GD05104140	100kΩ

• (U): for U.S.A.
• (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
RL19	1	1	GD05103140	10kΩ
RL20	1	1	GD05103140	10kΩ
RL21	1	1	GD05103140	10kΩ
RL22	1	1	GD05103140	10kΩ
RL23	1	1	RA02030060	20kΩ (B) Trimming 0.1W
RL24	1	1	RA02030060	20kΩ (B) Trimming 0.1W
RL25	1	1	GD05563140	56kΩ
RL26	1	1	GD05563140	56kΩ
RL27	1	1	GD05104140	100kΩ
RL28	1	1	GD05104140	100kΩ
RL40	1	1	GG05470140	470Ω
RL42	1	1	GD05822140	8.2kΩ
RL43	1	1	GD05333140	33kΩ
				PL01-SEMICONDUCTORS
QL01	1	1	HC10003320	IC IRZE11
QL02	1	1	HC10003090	IC JRC4558D
QL03	1	1	HC10008370	IC TL4890
QL04	1	1	HC10008370	IC TL4890
QL07	1	1	HD30076090	Zener WZ-038
QL08	1	1	HD30076090	Zener WZ-038
QL09	1	1	HD20001210	Diode IS2473
QL10	1	1	HD20001210	Diode IS2473
QL11	1	1	HD20001210	Diode IS2473
				PL02-L.E.D. CIRCUIT BOARD
PL02	1	1	YK110H1220	P.W. Board, L.E.D.
	1	1	ZZ110H1220	P.W. Board Assembly
				PL02-RESISTORS (All Resistors are ±5% and 1/4W)
RL07	1	1	GD05122140	1.2kΩ
RL08	1	1	GD05122140	1.2kΩ
RL09	1	1	GD05122140	1.2kΩ
RL10	1	1	GD05471140	470Ω
RL11	1	1	GD05471140	470Ω
RL12	1	1	GD05222140	2.2kΩ
RL13	1	1	GD05102140	1kΩ
RL14	1	1	GD05222140	2.2kΩ
RL29	1	1	GD05471140	470Ω
RL30	1	1	GD05471140	470Ω
RL31	1	1	GD05471140	470Ω
RL32	1	1	GD05471140	470Ω
RL33	1	1	GD05471140	470Ω
RL34	1	1	GD05471140	470Ω
RL35	1	1	GD05471140	470Ω
RL36	1	1	GD05471140	470Ω
RL37	1	1	GD05122140	1.2kΩ
RL38	1	1	GD05122140	1.2kΩ
RL35	1	1	GD05471140	470Ω
				PL02-SEMICONDUCTORS
QL12	1	1	HI10012030	L.E.D. SLP154B
QL13	1	1	HI10012030	L.E.D. SLP154B
QL14	1	1	HI10012030	L.E.D. SLP154B
QL15	1	1	HI10013030	L.E.D. SLP254B
QL16	1	1	HI10013030	L.E.D. SLP254B
QL17	1	1	HI10012030	L.E.D. SLP154B
QL18	1	1	HI10013030	L.E.D. SLP254B
QL19	1	1	HI10012030	L.E.D. SLP154B
QL20	1	1	HI10013030	L.E.D. SLP254B
QL21	1	1	HI10013030	L.E.D. SLP254B

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
QL22	1	1	HI10013030	L.E.D. SLP254B
QL23	1	1	HI10013030	L.E.D. SLP254B
QL24	1	1	HI10013030	L.E.D. SLP254B
QL25	1	1	HI10013030	L.E.D. SLP254B
QL26	1	1	HI10013030	L.E.D. SLP254B
QL27	1	1	HI10013030	L.E.D. SLP254B
QL28	1	1	HI10013030	L.E.D. SLP254B
QL29	1	1	HI10012030	L.E.D. SLP154B
QL30	1	1	HI10012030	L.E.D. SLP154B
				PS00-PUSH SWITCH CIRCUIT BOARD
PS00	1	1	YH110H0200	P.W. Board, Push Switch
	1	1	ZZ110H0200	P.W. Board Assembly
				PS00-CAPACITORS
OS01	1	1	DF17823300	Film 0.082μF ±20%
OS02	1	1	DF17823300	Film 0.082μF ±20%
OS03	1	1	DF17182300	Film 0.018μF ±20%
OS04	1	1	DF17182300	Film 0.018μF ±20%
				PS00-RESISTORS (All Resistors are ±5% and 1/4W)
RS01	1	1	GD05332140	3.3kΩ
RS02	1	1	GD05332140	3.3kΩ
RS03	1	1	GD05332140	3.3kΩ
RS04	1	1	GD05332140	3.3kΩ
RS05	1	1	GD05392140	3.9kΩ
RS06	1	1	GD05392140	3.9kΩ
RS07	1	1	GD05562140	5.6kΩ
RS08	1	1	GD05562140	5.6kΩ
				PS00-SWITCH
SS01	1	1	SP02040060	Push Switch
				PW00-HEADPHONE JACK CIRCUIT BOARD
PW00	1	1	YK21121850	P.W. Board, Headphone Jack
	1	1	ZZ21121850	P.W. Board Assembly
JW01	1	1	YJ01001340	Jack, Headphone
				PX00-S.P.K. SWITCH CIRCUIT BOARD
PX00	1	1	YK21121840	P.W. Board, S.P.K. Switch
	1	1	ZZ110H1840	P.W. Board Assembly
				PX00-CAPACITOR
CX01	1	1	EA10701630	Elect 100μF 16V
				PX00-RESISTORS (All Resistors are ±5%)
RX01	1	1	GA05331020	330Ω 2W
RX02	1	1	GA05331020	330Ω 2W
				PX00-SEMICONDUCTOR
QX01	1	1	HD20015030	Diode DS135
				PX00-SWITCH
SX01	1	1	SP02020570	Push Switch, Speaker

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- (U): for U.S.A.
- (C): for Canada

REF. DESIG.	Q'TY U	Q'TY C	PART NO.	DESCRIPTION
				PY00-STEREO L.E.D. CIRCUIT BOARD
PY00	1	1	YK21121860	P.W. Board, Stereo L.E.D.
	1	1	ZZ21121860	P.W. Board Assembly
RY01	1	1	GD05222140	Resistor 2.2kΩ ±5% 1/4W
QY01	1	1	HI10009020	L.E.D. LN26RP
				PZ00-DIAL POINTER LAMP CIRCUIT BOARD
PZ00	1	1	YK21121870	P.W. Board, Dial Pointer Lamp
	1	1	ZZ110H1870	P.W. Board Assembly
VZ01	1	1	IN10080530	Lamp 55 mA 8V

(W01-99)	**Assembly and Wiring**
(T01-99)	**Adjustment**
(X01-00)	**Correction**

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11. TECHNICAL SPECIFICATIONS

[FOR U.S.A. & CANADA]

AMPLIFIER SECTION

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN . . . . . 38 W
POWER BAND . . . . . 20 Hz to 20 kHz
TOTAL HORMONIC DISTORTION 0.08%
LOAD IMPEDANCE . . . . . 4 OHMS
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN . . . . . 30 W
POWER BAND . . . . . 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION 0.04%
LOAD IMPEDANCE . . . . . 8 OHMS

I.M. Distortion
(I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohm load impedance 0.04%
at 4 ohm load impedance 0.08%
Damping Factor (at 20 Hz) 36

PREAMPLIFIER SECTION

Phono
Imput Oeverload at 1 kHz . . . . . 110 mV
Equivalent Input Noise ("A" Weighted) . . . . . 2.5 μV
Dynamic Range
(Dynamic Range is the ratio of input overload to equivalent input noise) . . . . . 93 dB
Input Sensitivity . . . . . 2.7 mV
Input Impedance . . . . . 47 kohms
Input Capacitance . . . . . 220 pF
Frequency Response, RIAA 20 Hz to 20 kHz . . . . . ±0.5 dB
Signal-to-Noise Ratio ("A" Weighted)
(at rated output and 10 mV input) . . . . . 86 dB
High Level (Aux and Tape)
Input Sensitivity . . . . . 160 mV
Input Impedance . . . . . 20 kohms
Frequency Response
(includes power amp) . . . . . 15 Hz to 50 kHz ± 1.0 dB
Signal-to-Noise Ratio ("A" Weighted)
(ref. to rated output and 775 mV input) . . . . . 98 dB
Output Levels
Tape Out (ref. 10 mV at Phone inputs) . . . . . 580 mV
Output Impedance
Tape Out . . . . . 500 ohms

FM TUNER SECTION

Sensitivity
IHF Usable . . . . . 10.8 dBf (1.9 μV)
IHF 50 dB Quieting (Mono) . . . . . 14.2 dBf (2.8 μV)
(Stereo) . . . . . 37.3 dBf (40 μV)
Quieting Slope (Mono)
RF Input for 30 dB Quieting . . . . . 10.8 dBf (1.9 μV)
Quieting at:
20 dBf (5.5 μV) . . . . . 55 dB
25 dBf (10 μV) . . . . . 60 dB
40 dBf (55 μV) . . . . . 72 dB
65 dBf (1000 μV) . . . . . 75 dB

Quieting Slope (Stereo)
Quieting at:
30 dBf (17 μV) . . . . . 40 dB
40 dBf (55 μV) . . . . . 52 dB
50 dBf (173 μV) . . . . . 60 dB
65 dBf (1000 μV) . . . . . 70 dB
Distortion (Mono) at 65 dBf (1000 μV)
100 Hz 0.2%
1000 Hz 0.15%
6000 Hz 0.2%
Distortion (Stereo) at 65 dBf (1000 μV)
100 Hz 0.3%
1000 Hz 0.25%
6000 Hz 0.4%
Frequency Response
30 Hz to 15 kHz
Mono and Stereo . . . . . +0.5 dB, −1.0 dB
Capture Ratio at 65 dBf (1000 μV) . . . . . 1.0 dB
Alternate Channel Selectivity . . . . . 62 dB
Spurious Response Rejection . . . . . 90 dB
Image Response Rejection . . . . . 50 dB
I.F. Rejection (Balanced) . . . . . 90 dB
A.M. Suppression . . . . . 50 dB
Stereo Separation at 1 kHz . . . . . 45 dB
Subcarrier Rejection . . . . . 60 dB

AM TUNER SECTION

IHF Usable Sensitivity . . . . . 20 μV
Signal-to-Noise Ratio . . . . . 50 dB
Alternate Channel Selectivity . . . . . 44 dB
Image Rejection . . . . . 45 dB
Spurious Response Rejection . . . . . 55 dB
I.F. Rejection . . . . . 40 dB

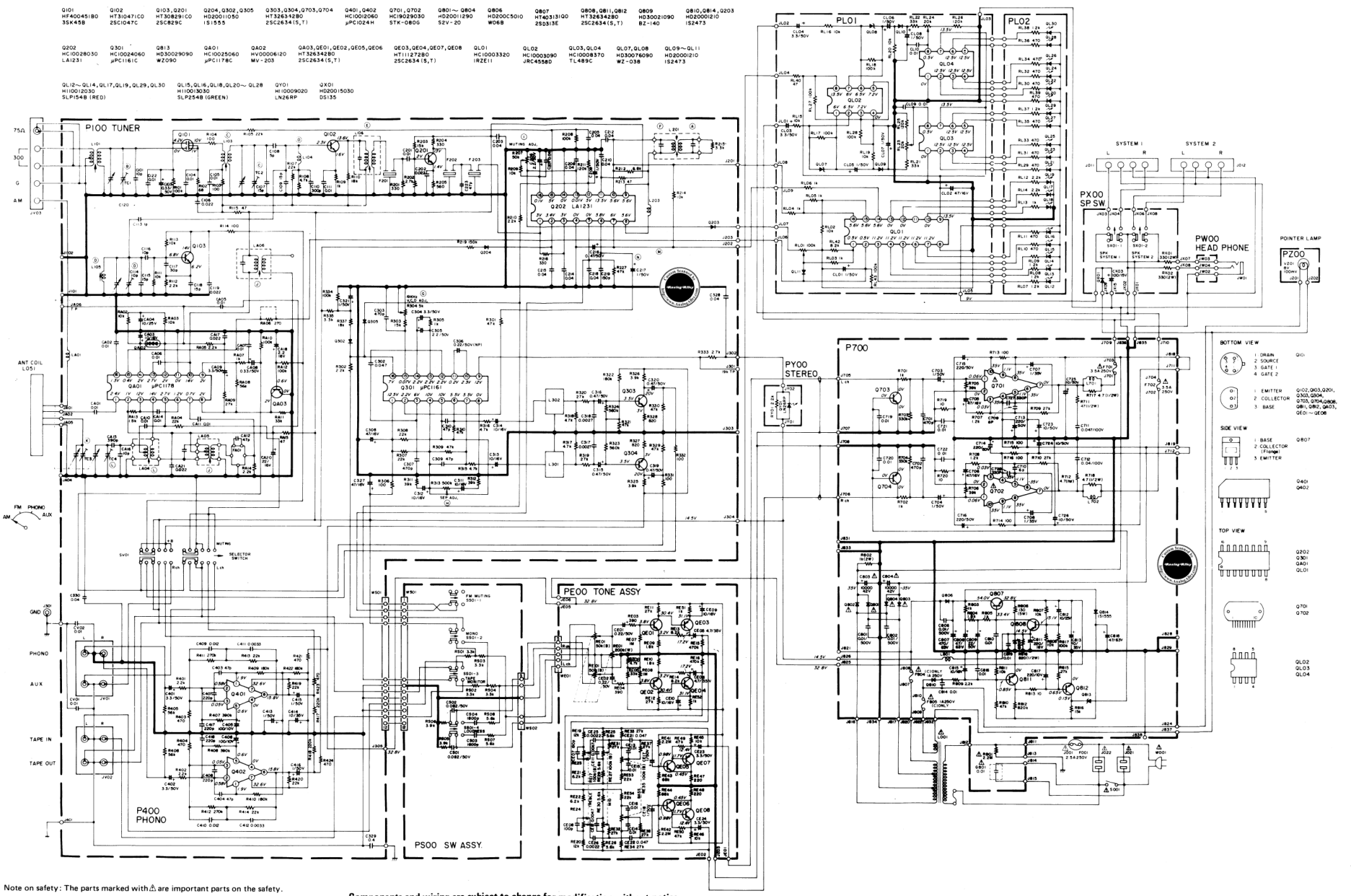
GENERAL

Power Requirements . . . . . 120 VAC, 60 Hz
Power Consumption at rated output, both channels operating . . . . . 150 W
Idling Power (Volume Control at zero) . . . . . 28 W
Dimensions:
Panel Width . . . . . 466 mm (18-3/8")
Panel Height . . . . . 140 mm (5-1/2")
Depth . . . . . 323 mm (12-3/4")
Weight:
Unit alone . . . . . 8.0 kg (17.6 lbs)
Packed for Shipment . . . . . 10.5 kg (23.1 lbs)

Custom Scanned by Analog-Alley http://www.Analog-Alley.com

Note:

12. SCHEMATIC DIAGRAM



Note on safety: The parts marked with ⚠ are important parts on the safety.
plese use the parts having the designated parts number without fail.

Components and wiring are subject to change for modification without notice.

model SR3100/MR1135

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